STN structure search

10/526,507 05/25/2007

(Registry | Caplus)

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Welcome to STN International! Enter x:x

LOGINID:SSPTAJMN1626

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

Searched by Jason M. Nolan, Ph.D. 05/25/2007

```
 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN     Welcome Banner and News Items
 NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:07:58 ON 25 MAY 2007

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.21       0.21

FILE 'REGISTRY' ENTERED AT 14:08:03 ON 25 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   24 MAY 2007  HIGHEST RN 935837-89-1
DICTIONARY FILE UPDATES:  24 MAY 2007  HIGHEST RN 935837-89-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Program Files\Stnexp\Queries\10526507\4.str
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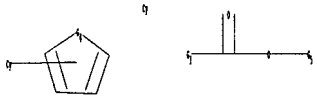
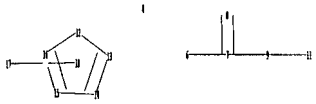




chain nodes :
4 6 7 8 9 11 17
ring nodes :
12 13 14 15 16
chain bonds :
6-7 7-8 7-9 9-11
ring bonds :
12-13 12-16 13-14 14-15 15-16
exact/norm bonds :
6-7 7-8 7-9 9-11 12-13 12-16 13-14 14-15 15-16
isolated ring systems :
containing 12 :

G1:Cb,Ak

G2:C,O,S,N

G3:C,N

G4:O,S

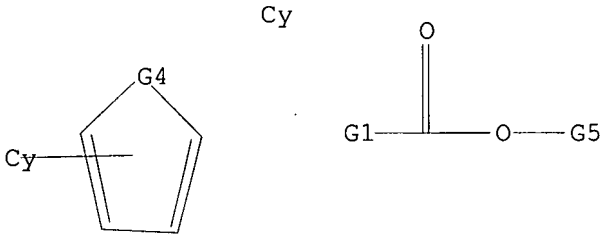
G5:H,Cb,Ak

Match level :

4:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 11:CLASS 12:Atom 13:Atom 14:CLASS
15:Atom 16:Atom 17:Atom 18:CLASS
Generic attributes :
4:
Saturation : Unsaturated
17:
Saturation : Unsaturated

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 Cb,Ak

G2 C,O,S,N

G3 C,N

G4 O,S

G5 H,Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 14:08:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 33022 TO ITERATE

6.1% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 649577 TO 671303
PROJECTED ANSWERS: 17610 TO 21354

L2 50 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:08:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 655775 TO ITERATE

100.0% PROCESSED 655775 ITERATIONS 19277 ANSWERS
SEARCH TIME: 00.00.10

```
L3        19277 SEA SSS FUL L1

=> save l3 apple/a
ANSWER SET L3 HAS BEEN SAVED AS 'APPLE/A'

=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               172.55     172.76

FILE 'CAPLUS' ENTERED AT 14:09:29 ON 25 MAY 2007
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COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE COVERS 1907 - 25 May 2007  VOL 146 ISS 23
FILE LAST UPDATED: 24 May 2007  (20070524/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L4        2272 L3

=>
Uploading C:\Program Files\Stnexp\Queries\10526507\4 A is thiazole.str
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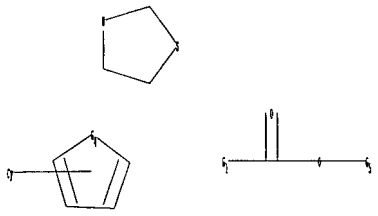

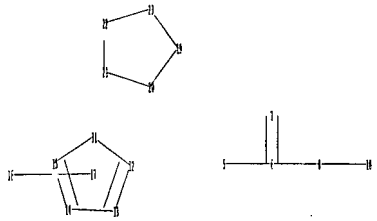

chain nodes :
5 6 7 8 10 16
ring nodes :
11 12 13 14 15 19 20 21 22 23
chain bonds :
5-6 6-7 6-8 8-10
ring bonds :
11-12 11-15 12-13 13-14 14-15 19-20 19-23 20-21 21-22 22-23
exact/norm bonds :
5-6 6-7 6-8 8-10 11-12 11-15 12-13 13-14 14-15 19-20 19-23 20-21 21-22
22-23
isolated ring systems :
containing 11 :

G1:Cb,Ak

G2:C,O,S,N

G3:C,N

G4:O,S

G5:H,Cb,Ak

Match level :
5:CLASS 6:CLASS 7:CLASS 8:CLASS 10:CLASS 11:Atom 12:Atom 13:CLASS 14:Atom
15:Atom 16:Atom 17:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom
Generic attributes :
16:
Saturation : Unsaturated

```
L5      STRUCTURE UPLOADED

=> s l5 full sub=l3
   REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.



FULL SUBSET SEARCH INITIATED 14:10:49 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -     1838 TO ITERATE

100.0% PROCESSED     1838 ITERATIONS                          400 ANSWERS
SEARCH TIME: 00.00.01

L6          400 SEA SUB=L3 SSS FUL L5


SUBSET IS IGNORED AS A SCOPE FOR THIS SEARCH
L7           38 L6

=> s l7 and ppar
          9158 PPAR
L8           1 L7 AND PPAR

=> d ibib
```

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:417731 CAPLUS
DOCUMENT NUMBER: 139:6866
TITLE: Preparation of 5-(benzylidene)rhodanines and analogs as antidiabetics and antitumor agents
INVENTOR(S): Pfahl, Magnus; Tachdjian, Catherine; Spruce, Lyle W.; Al-Shamma, Hussien A.; Boudjelal, Mohamed; Fanjul, Andrea N.; Wiemann, Torsten R.; Pleynet, David P. M.
PATENT ASSIGNEE(S): Maxia Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 118 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003043998	A1	20030530	WO 2002-US36583	20021115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002352706	A1	20030610	AU 2002-352706	20021115
US 2003144329	A1	20030731	US 2002-298024	20021115
US 7071218	B2	20060704		
EP 1456187	A1	20040915	EP 2002-789654	20021115
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JP 2005513026	T	20050512	JP 2003-545635	20021115
US 2003216432	A1	20031120	US 2003-384352	20030306
US 7102000	B2	20060905		
US 2004034004	A1	20040219	US 2003-384391	20030306
US 7196108	B2	20070327		
CA 2478342	A1	20030918	CA 2003-2478342	20030307
CA 2478765	A1	20030918	CA 2003-2478765	20030307
WO 2003075924	A1	20030918	WO 2003-US6784	20030307
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2003075858	A2	20030918	WO 2003-US7240	20030307
WO 2003075858	A3	20040318		
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AU 2003223233	A1	20030922	AU 2003-223233	20030307
AU 2003223233	A2	20030922		
AU 2003225682	A2	20030922	AU 2003-225682	20030307
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EP 1487446	A2	20041222	EP 2003-719363	20030307
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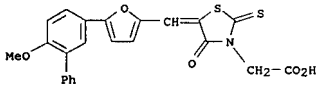
BR 2003008278	A	20050209	BR 2003-8278	20030307
CN 1649586	A	20050803	CN 2003-810148	20030307
JP 2005525371	T	20050825	JP 2003-574134	20030307
JP 2005530705	T	20051013	JP 2003-574198	20030307
NO 2004004250	A	20041103	NO 2004-4250	20041007
US 2006160796	A1	20060720	US 2006-385204	20060320
US 2006241138	A1	20061026	US 2006-476330	20060628

PRIORITY APPLN. INFO.:			
US 2001-334794P	P	20011115	
US 2002-362702P	P	20020308	
US 2002-362732P	P	20020308	
US 2002-298024	A3	20021115	
WO 2002-US36583	W	20021115	
US 2003-384352	A3	20030306	
WO 2003-US6784	W	20030307	
WO 2003-US7240	W	20030307	

OTHER SOURCE(S): MARPAT 139:6866
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d hitstr

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
IT 532440-69-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antidiabetic and/or antitumor agent; preparation (benzylidene)rhodanines and analogs for treatment of cancer, diabetes, and other diseases)
RN 532440-69-0 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-(6-methoxy[1,1'-biphenyl]-3-yl)-2-furanyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



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     FILE 'REGISTRY' ENTERED AT 14:08:03 ON 25 MAY 2007
L1             STRUCTURE UPLOADED
L2          50 S L1
L3       19277 S L1 FULL
               SAVE L3 APPLE/A

     FILE 'CAPLUS' ENTERED AT 14:09:29 ON 25 MAY 2007
L4        2272 S L3
L5             STRUCTURE UPLOADED
               S L5

     FILE 'REGISTRY' ENTERED AT 14:10:49 ON 25 MAY 2007
L6         400 S L5 FULL SUB=L3

     FILE 'CAPLUS' ENTERED AT 14:10:50 ON 25 MAY 2007
L7          38 S L6 SUBSET=L3 FULL
L8           1 S L7 AND PPAR

=>
Uploading C:\Program Files\Stnexp\Queries\10526507\4 A is phenyl.str
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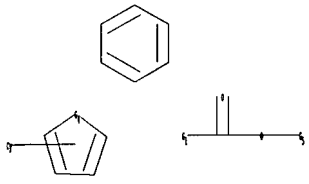

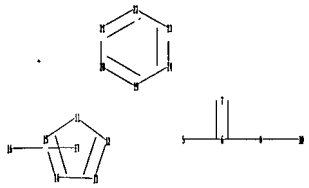

```
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5  6  7  8  10  16
ring nodes :
11  12  13  14  15  19  20  21  22  23  24
chain bonds :
5-6  6-7  6-8  8-10
```

ring bonds :
11-12 11-15 12-13 13-14 14-15 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
5-6 6-7 6-8 8-10 11-12 11-15
normalized bonds :
12-13 13-14 14-15 19-20 19-24 20-21 21-22 22-23 23-24
isolated ring systems :
containing 11 :

G1:Cb,Ak

G2:C,O,S,N

G3:C,N

G4:O,S

G5:H,Cb,Ak

Match level :
5:CLASS 6:CLASS 7:CLASS 8:CLASS 10:CLASS 11:Atom 12:Atom 13:CLASS 14:Atom
15:Atom 16:Atom 17:CLASS 19:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom
Generic attributes :
16:
Saturation : Unsaturated

L9 STRUCTURE UPLOADED

=> s l9 full sub=L3
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SUBSET SEARCH INITIATED 14:13:34 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 13743 TO ITERATE

100.0% PROCESSED 13743 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L10 0 SEA SUB=L3 SSS FUL L9

SUBSET IS IGNORED AS A SCOPE FOR THIS SEARCH
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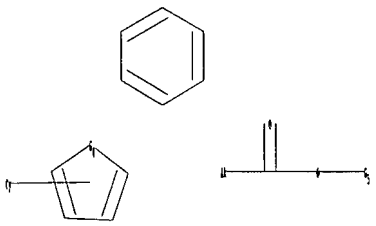
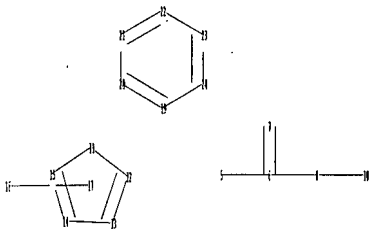
Uploading C:\Program Files\Stnexp\Queries\10526507\4 A is phenyl2.str





chain nodes :
5 6 7 8 10 16
ring nodes :
11 12 13 14 15 19 20 21 22 23 24
chain bonds :
5-6 6-7 6-8 8-10
ring bonds :
11-12 11-15 12-13 13-14 14-15 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
5-6 6-7 6-8 8-10 11-12 11-15
normalized bonds :
12-13 13-14 14-15 19-20 19-24 20-21 21-22 22-23 23-24
isolated ring systems :
containing 11 :

G1:Cb,Ak

G2:C,O,S,N

G3:C,N

G4:O,S

G5:H,Cb,Ak

Match level :
5:CLASS 6:CLASS 7:CLASS 8:CLASS 10:CLASS 11:Atom 12:Atom 13:CLASS 14:Atom
15:Atom 16:Atom 17:CLASS 19:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom

```
Generic attributes :
16:
Saturation              : Unsaturated



L12     STRUCTURE UPLOADED

=> s l12 full sub=L3
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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.



FULL SUBSET SEARCH INITIATED 14:15:05 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -    13754 TO ITERATE

100.0% PROCESSED    13754 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L13           0 SEA SUB=L3 SSS FUL L12


SUBSET IS IGNORED AS A SCOPE FOR THIS SEARCH
L14           0 L13

=> d his

     (FILE 'HOME' ENTERED AT 14:07:58 ON 25 MAY 2007)

     FILE 'REGISTRY' ENTERED AT 14:08:03 ON 25 MAY 2007
L1              STRUCTURE UPLOADED
L2             50 S L1
L3          19277 S L1 FULL
                SAVE L3 APPLE/A

     FILE 'CAPLUS' ENTERED AT 14:09:29 ON 25 MAY 2007
L4           2272 S L3
L5              STRUCTURE UPLOADED
                S L5

     FILE 'REGISTRY' ENTERED AT 14:10:49 ON 25 MAY 2007
L6            400 S L5 FULL SUB=L3

     FILE 'CAPLUS' ENTERED AT 14:10:50 ON 25 MAY 2007
L7             38 S L6 SUBSET=L3 FULL
L8              1 S L7 AND PPAR
L9              STRUCTURE UPLOADED
                S L9

     FILE 'REGISTRY' ENTERED AT 14:13:33 ON 25 MAY 2007
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L10             0 S L9 FULL SUB=L3

     FILE 'CAPLUS' ENTERED AT 14:13:34 ON 25 MAY 2007
L11             0 S L10 SUBSET=L3 FULL
L12               STRUCTURE UPLOADED
                  S L12

     FILE 'REGISTRY' ENTERED AT 14:15:05 ON 25 MAY 2007
L13             0 S L12 FULL SUB=L3

     FILE 'CAPLUS' ENTERED AT 14:15:06 ON 25 MAY 2007
L14             0 S L13 SUBSET=L3 FULL

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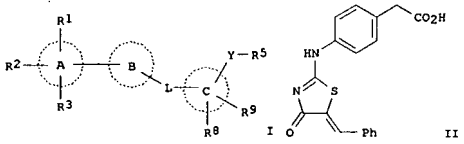
L7 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:330181 CAPLUS
DOCUMENT NUMBER: 146:358833
TITLE: Preparation of thiazolinone and oxazolinone derivatives as PTP-1B inhibitors
INVENTOR(S): Banerjee, Rakesh Kumar; Gupta, Ramesh Chandra; Tuli, Davinder; Rode, Milind; Shuthar, Bharat; Umrani, Dhananjay; Pathak, Padmaja; Choksi, Tejal; Chaudhary, Anita
PATENT ASSIGNEE(S): Torrent Pharmaceuticals Ltd., India
SOURCE: PCT Int. Appl., 110pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007032028	A1	20070322	WO 2006-IN368	20060915

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

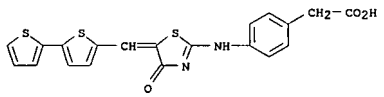
PRIORITY APPLN. INFO.: IN 2005-KO860 A 20050916

OTHER SOURCE(S): MARPAT 146:358833
GI



AB The title thiazolinone and oxazolinone derivs. I [wherein ring A = naphthalene, biphenyl, etc.; ring B = (un)substituted (thiazolinone)methylene, (oxazolinone)methylene, etc.; ring C = benzene, naphthalene, etc.; L = NH, NHCH2, etc.; Y = (un)substituted CH2, CH2CH2, or CH2CH2CH2; R1 = H, -CH2CO2H, etc.; R2 and R3 = independently H,

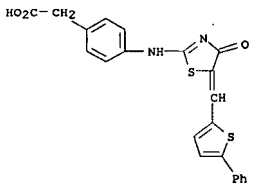
L7 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
-CH2CO2H, etc.; R5 = COCO2H, (un)substituted CO2H, etc.; R8 and R9 = independently H, halo, alkyl, etc.] or pharmaceutically acceptable salts or prodrugs thereof are prepd. as protein tyrosine phosphatase (PTP) inhibitors for treating or preventing PTP-1B mediated diseases. For example, the compd. II was prepd. in a multi-step synthesis. Some of the compds. I showed good inhibitory activities against human PTP-1B.
IT 929702-70-5P 929703-11-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of thiazolinone and oxazolinone derivs. as
PTP-1B inhibitors)
RN 929702-70-5 CAPLUS
CN Benzeneacetic acid, 4-[[5-([2,2'-bithiophen]-5-ylmethylene)-4,5-dihydro-4-oxo-2-thiazolyl]amino]-, sodium salt (1:1) (CA INDEX NAME)



● Na

RN 929703-11-7 CAPLUS
CN Benzeneacetic acid, 4-[[4,5-dihydro-4-oxo-5-[(5-phenyl-2-thienyl)methylene]-2-thiazolyl]amino]-, sodium salt (1:1) (CA INDEX NAME)

L7 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

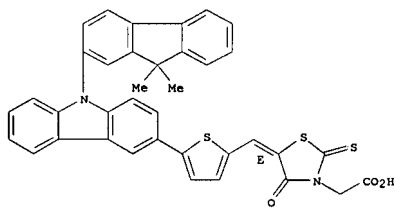


● Na

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 2 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:122010 CAPLUS
DOCUMENT NUMBER: 146:383337
TITLE: Molecular engineering of organic dyes containing N-aryl carbazole moiety for solar cell
AUTHOR(S): Kim, Duckhyun; Lee, Jae Kwan; Kang, Sang Ook; Ko, Jaejung
CORPORATE SOURCE: Department of Chemistry, Korea University, Chungnam, 339-700, S. Korea
SOURCE: Tetrahedron (2007), 63(9), 1913-1922
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Organic dyes containing N-aryl carbazole moiety are designed and synthesized.
Under standard global AM 1.5 solar condition, the JK-25 sensitized cell gave a
short circuit photocurrent d. (Jsc) of 11.50 mA cm-2, an open circuit voltage (Voc) of 0.68 V, a fill factor of 0.66, corresponding to an overall conversion efficiency η of 5.15%, and the maximum incident monochromatic photon-to-current conversion efficiency (IPCE) of 77% at 430
nm.
IT 930765-99-4P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR
(Purification or recovery); SPN (Synthetic preparation); TEM (Technical or
engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(dye JK-26; mol. engineering of organic dyes containing N-aryl carbazole
moiety for solar cell)
RN 930765-99-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

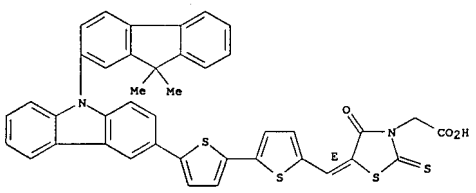
Double bond geometry as shown.



IT 930766-00-0P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR
(Purification or recovery); SPN (Synthetic preparation); TEM (Technical or

L7 ANSWER 2 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(dye JK-27; mol. engineering of org. dyes contg. N-aryl carbazole moiety for solar cell)
RN 930766-00-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Double bond geometry as shown.



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
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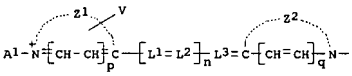
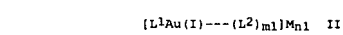
L7 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1309245 CAPLUS
DOCUMENT NUMBER: 146:71778
TITLE: Photographic materials containing cyanine dyes and silver halides sensitized with gold compounds
INVENTOR(S): Kataoka, Emiko
PATENT ASSIGNEE(S): Konica Minolta Photo Imaging, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 72pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006337636	A	20061214	JP 2005-161101	20050601
PRIORITY APPLN. INFO.:			JP 2005-161101	20050601

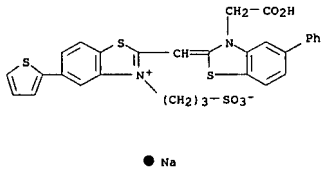
GI





AB Photog. materials having an emulsion layer containing cyanine dye I (Z1, Z2 = groups for forming N-containing heterocycle; L1, L2, L3 = (un)substituted methine; A1, A2 = (un)substituted alkyl, aryl; V = thienyl; Y = counter ion; m = number for neutralization; n = 0-3; p, q = 0, 1) and ≥1 Ag halide particles sensitized with II (Au(I) = monovalent Au; L1 = groups bonding to Au(I) via N, S, O, P, Se, Te; L2 = compds. coordinating with Au(I) via N, S, O, P, Se, Te; M = H, counter cation; m1, n1 = 0, 1). The emulsions are stable and show excellent coating properties.
IT 916613-49-5
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(photog. materials with emulsion layers containing cyanine dyes and gold compound-sensitized silver halides)
RN 916613-49-5 CAPLUS
CN Benzothiazolium, 2-[[3-(carboxymethyl)-5-phenyl-2(3H)-benzothiazolylidene]methyl]-3-(3-sulfopropyl)-5-(2-thienyl)-, inner salt, sodium salt (1:1) (CA INDEX NAME)

L7 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

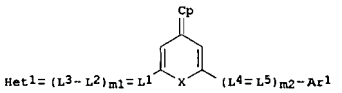


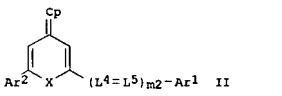
● Na

L7 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1179845 CAPLUS
DOCUMENT NUMBER: 145:492279
TITLE: Semiconductors for photoelectric conversion, photoelectric conversion materials, and dye-sensitized solar cells
INVENTOR(S): Kagawa, Nobuaki; Ofuku, Koji
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 60pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006310097	A	20061109	JP 2005-131461	20050428
PRIORITY APPLN. INFO.:			JP 2005-131461	20050428

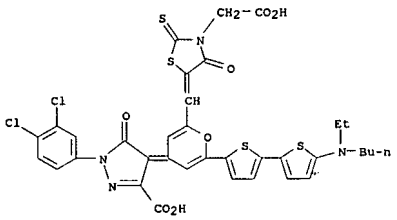
OTHER SOURCE(S): MARPAT 145:492279
GI



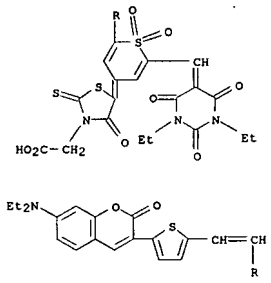


AB The title semiconductors have their surfaces adsorbing compds. I or II (Ar1-2 = 5- or 6-membered aromatic ring, heterocycle; Het1 = bivalent heterocycle; X = O, SOn; n = integer of 0-2, :NR; R = aliphatic, aryl, heterocycle; Cp = visible light- or near IR-absorbing group having ≥1 carboxyl; L1-5 = (un)substituted methine; m1, m2 = integer of 0-2). Further defined preferable Markush structures for I and II are also given. Also claimed are photoelec. conversion elements including the semiconductors and solar cells including the elements. The devices show high photoelec. energy conversion efficiency and are stable.
IT 914307-28-1 914307-34-9 914307-58-7
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(methine dye-adsorbed semiconductors for solar cells)
RN 914307-28-1 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[6-[5'-(butylethylamino)[2,2'-bithiophen]-5-

L7 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
yl]-4-[3-carboxy-1-(3,4-dichlorophenyl)-1,5-dihydro-5-oxo-4H-pyrazol-4-ylidene]-4H-pyran-2-yl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

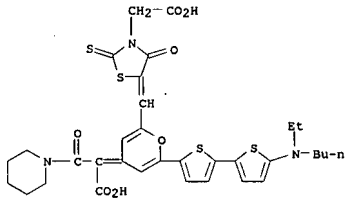


RN 914307-34-9 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[2-[2-[5-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-2-thienyl]ethenyl]-6-[(1,3-diethyltetrahydro-2,4,6-trioxo-5(2H)-pyrimidinylidene)methyl]-1,1-dioxido-4H-thiopyran-4-ylidene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 914307-58-7 CAPLUS
CN 1-Piperidinepropanoic acid, α-[2-[5'-(butylethylamino)[2,2'-bithiophen]-5-yl]-6-[[3-(carboxymethyl)-4-oxo-2-thioxo-5-thiazolidinylidene]methyl]-4H-pyran-4-ylidene]-β-oxo- (9CI) (CA

L7 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
INDEX NAME)



L7 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:681262 CAPLUS
DOCUMENT NUMBER: 145:145689
TITLE: Preparation of rhodanine derivatives and analogs thereof as rigidified compounds for modulating heparanase activity
INVENTOR(S): Van-Gelder, Joel M.; Klein, Joseph Y.; Basel, Yochai; Reizelman, Anat; Tchilibon, Susanna; Mouallem, Orly
PATENT ASSIGNEE(S): Insight Biopharmaceuticals Ltd., Israel
SOURCE: PCT Int. Appl., 193 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006072953	A2	20060713	WO 2006-IL23	20060105
WO 2006072953	A3	20061102		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2005-641444P P 20050106
US 2005-681463P P 20050517

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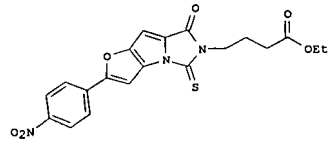


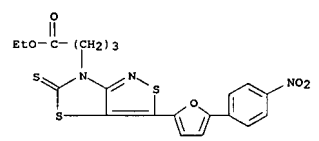
II

L7 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

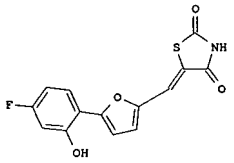
AB Disclosed are novel rigidified compds. having a rhodanine-like residue and at least one aryl or heteroaryl residue linked to the rhodanine-like residue, whereby a core structure of these compds. I [Y and Z independently = O, S, Se, NRd, CRdRe or RdC=CRe; A = N or CRa; X = O, S, NRb, CRbRc etc.; M = N, P, C or Si; B = lone pair electrons, OH, alkoxy, amine, etc.; Ra, Rb, Rc, Rd, and Re independently = H, (un)substituted alkyl, cycloalkyl, and aryl; R1 = H, (un)substituted alkyl, cycloalkyl, alkenyl, etc.; core ring may be component of multicyclic system] is characterized as having one or zero free-to-rotate bonds. Methods for preparing I are included, e.g., II was prepared by cyclization of 2-(4-nitrophenyl)-4H-furo[3,2-b]pyrrole-5-carboxylic acid Et ester (preparation given) with 4-isothiocyanatobutyrate. In assays to determine inhibition of heparanase (H53), I demonstrated IC50 values from 9.0-74.0 μM (with select compds. showing no inhibition). Also disclosed are pharmaceutical compns. containing these rigidified compds. and uses thereof for modulating the activity of heparanase and hence in the treatment of heparanase-associated diseases and disorders, and uses thereof for modulating the activity of heparin-binding proteins and hence in the treatment of heparin-binding proteins-associated diseases and disorders as well as in the treatment of medical conditions that are at least partially treatable by rhodanine or a rhodanine analog.

IT 898552-69-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of rhodanine derivs. and analogs thereof as rigidified compound for modulating heparanase activity)

RN 898552-69-7 CAPLUS
CN Thiazolo[4,5-c]isothiazole-6(5H)-butanoic acid, 3-[5-(4-nitrophenyl)-2-furanyl]-5-thioxo-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:530474 CAPLUS
DOCUMENT NUMBER: 145:159080
TITLE: Furan-2-ylmethylene Thiazolidinediones as Novel, Potent, and Selective Inhibitors of Phosphoinositide 3-Kinase γ
AUTHOR(S): Pomel, Vincent; Klicic, Jasna; Covini, David; Church, Dennis D.; Shaw, Jeffrey P.; Roulin, Karen; Burgat-Charvillon, Fabienne; Valognes, Delphine; Camps, Montserrat; Chabert, Christian; Gillieron, Corinne; Francon, Bernard; Perrin, Dominique; Leroy, Didier; Gretener, Denise; Nichols, Anthony; Vitte, Pierre Alain; Carboni, Susanna; Rommel, Christian; Schwarz, Matthias K.; Rueckle, Thomas
CORPORATE SOURCE: Departments of Chemistry, Signal Transduction Biochemical Pharmacology and Experimental Pharmacology, Serono Pharmaceutical Research Institute, Geneva, CH-1228, Switz.
SOURCE: Journal of Medicinal Chemistry (2006), 49(13), 3857-3871
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Class I phosphoinositide 3-kinases (PI3Ks), in particular PI3Kγ, have become attractive drug targets for inflammatory and autoimmune diseases. Here, we disclose a novel series of furan-2-ylmethylene thiazolidinediones as selective, ATP-competitive PI3Kγ inhibitors. Structure-based design and x-ray crystallog. of complexes formed by inhibitors bound to PI3Kγ identified key pharmacophore features for potency and selectivity. An acidic NH group on the thiazolidinedione moiety and a hydroxy group on the furan-2-yl-Ph part of the mol. play crucial roles in binding to PI3K and contribute to class IB PI3K selectivity. AS-252424 (I), a potent and selective small-mol. PI3Kγ inhibitor emerging from these efforts, was further profiled in three different cellular PI3K assays and shown to be selective for class IB PI3K-mediated cellular effects. Oral administration of I in a mouse model of acute peritonitis led to a significant reduction of leukocyte recruitment.

L7 ANSWER 7 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:232172 CAPLUS
DOCUMENT NUMBER: 144:295880
TITLE: Semiconductor electrodes using polymethine dye photosensitizers, photoelectric conversion devices, and dye-sensitized solar cells
INVENTOR(S): Fukui, Atsushi; Enomoto, Kazuhiro
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006073375	A	20060316	JP 2004-256095	20040902
PRIORITY APPLN. INFO.:			JP 2004-256095	20040902

OTHER SOURCE(S): MARPAT 144:295880
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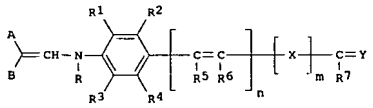
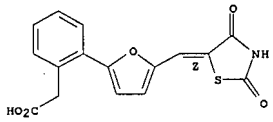


I

AB The title electrodes are equipped with semiconductors sensitized by polymethine dyes having bisenamine skeletons I (A and B = lower alkyl, (substituted) aryl; R = lower alkyl, (substituted) aryl or aralkyl; R1-R4 = H, halogen, lower alkyl, or lower alkoxy; R and R1 or R and R3 may form 5- or 6-membered C rings; R1 and R2 or R3 and R4 may form 6-membered C rings; R5 to R7 = H, lower alkyl, or lower alkoxy; X = (substituted) aromatic group; Y = (substituted) heterocyclic group; n and m = 0-3 integer). The resulting solar cells provide high photoelec. conversion efficiency.
IT 879211-93-5
RL: DEV (Device component use); USES (Uses)
(dye; semiconductor electrodes using polymethine dye photosensitizers for dye-sensitized solar cells)
RN 879211-93-5 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-[1-(2,2-diphenylethenyl)-1,2,3,4-tetrahydro-6-quinolinyl]-2-thienyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

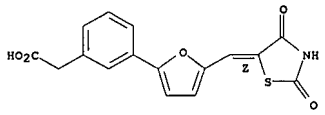
L7 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 900515-02-8P 900515-05-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(furan-2-ylmethylene thiazolidinediones as novel, potent, and selective inhibitors of phosphoinositide 3-kinase γ)
RN 900515-02-8 CAPLUS
CN Benzeneacetic acid, 2-[5-[(Z)-(2,4-dioxo-5-thiazolidinylidene)methyl]-2-furanyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



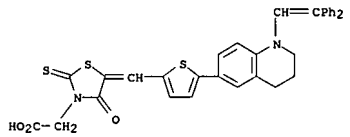
RN 900515-05-1 CAPLUS
CN Benzeneacetic acid, 3-[5-[(Z)-(2,4-dioxo-5-thiazolidinylidene)methyl]-2-furanyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

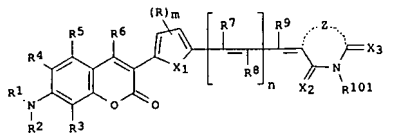
L7 ANSWER 7 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L7 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:695895 CAPLUS
DOCUMENT NUMBER: 143:196809
TITLE: Coumarin dye-sensitized semiconductors, photoelectric conversion materials, and solar cells
INVENTOR(S): Daifuku, Koji; Kagawa, Nobuaki
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005209359	A	20050804	JP 2004-11512	20040120
PRIORITY APPLN. INFO.:			JP 2004-11512	20040120

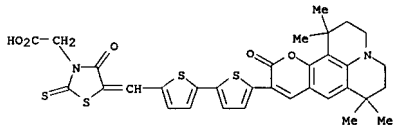
OTHER SOURCE(S): MARPAT 143:196809
GI



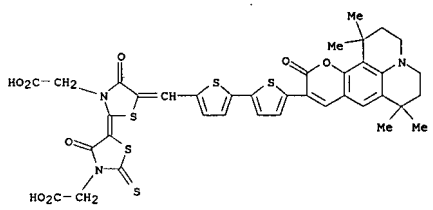
I

AB The semiconductors, preferably metal oxides or sulfides, contain I (having ≥1 CO2M; M = H, cation; R1, R2 = H, alkyl, aryl, heterocyclic group; R3-R9 = H, substituent; R1R2 and R3R4 may form ring; R, R101 = substituent; X1 = O, S, NR21; X2 = O, S; X3 = O, S, heterocycle; R21 = H, substituent; Z = nonmetal atomic group necessary for forming 5- or 6-membered heterocycle; m, n = 0-2). Solar cells using the semiconductors show high photoelec. conversion efficiency and durability.
IT 861907-91-7 861907-92-8 861908-04-5
RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(coumarin dye-sensitized semiconductors for photoelec. conversion materials and solar cells)
RN 861907-91-7 CAPLUS
CN 3-Thiazolidineacetic acid, 4-oxo-5-[[5'-(2,3,6,7-tetrahydro-1,1,7,7-tetramethyl-11-oxo-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizin-10-yl)[2,2'-bithiophen]-5-yl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

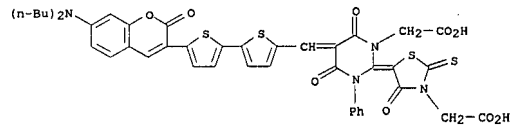
L7 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 861907-92-8 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[3-(carboxymethyl)-4-oxo-5-[[5'-(2,3,6,7-tetrahydro-1,1,7,7-tetramethyl-11-oxo-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizin-10-yl)[2,2'-bithiophen]-5-yl]methylene]-2-thiazolidinylidene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



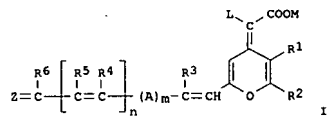
RN 861908-04-5 CAPLUS
CN 1(2H)-Pyrimidineacetic acid, 2-[3-(carboxymethyl)-4-oxo-2-thioxo-5-thiazolidinylidene]-5-[[5'-[7-(dibutylamino)-2-oxo-2H-1-benzopyran-3-yl][2,2'-bithiophen]-5-yl]methylene]tetrahydro-4,6-dioxo-3-phenyl- (9CI) (CA INDEX NAME)



L7 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:638246 CAPLUS
DOCUMENT NUMBER: 143:156316
TITLE: Semiconductor electrodes sensitized with γ-pyrone polymethine dyes, and solar cells using them
INVENTOR(S): Fukui, Atsushi; Han, Li-Yuan; Enomoto, Kazuhiro
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005197115	A	20050721	JP 2004-3153	20040108
PRIORITY APPLN. INFO.:			JP 2004-3153	20040108

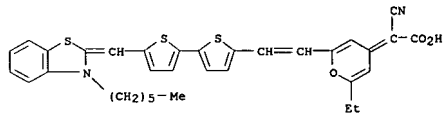
OTHER SOURCE(S): MARPAT 143:156316
GI



I

AB The electrodes have sensitizing dyes I [A = C4-5 heterocyclylene; Z = C6-24 bivalent aromatic group; R1 = H, C1-4 alkoxy; R2 = H, C1-4 alkyl, OH, C1-4 alkoxy, C6-12 aryl, (substituted) styryl; R1R2 may form 5- or 6-membered carbon ring; R3-R6 = H, halo, C1-4 alkyl, C1-4 alkoxy; L = H, electron withdrawing group; M = H, cation; m = 0-3; n = 0-4]. Thus, TiO2 electrode sensitized with polymethine dye having γ-pyrone and benzothiazole structure II is exemplified.
IT 859829-02-0P
RL: DEV (Device component use); IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(semiconductor electrodes sensitized with γ-pyrone polymethine dyes for solar cells)
RN 859829-02-0 CAPLUS
CN Acetic acid, cyano[2-ethyl-6-[2-[5'-[(3-hexyl-2(3H)-benzothiazolylidene)methyl][2,2'-bithiophen]-5-yl]ethenyl]-4H-pyran-4-ylidene]- (9CI) (CA INDEX NAME)

L7 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L7 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:409306 CAPLUS
DOCUMENT NUMBER: 142:441839
TITLE: Rhodanine compounds and compositions for use as antiviral agents
INVENTOR(S): Rajinder, Singh; Usha, Ramesh; Clough, Jeffrey; Issakani, Sarkiz D.; Look, Gary Charles
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005041951	A2	20050512	WO 2004-US35795	20041028
WO 2005041951	A3	20051006		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-514951P P 20031028
US 2003-526726P P 20031203

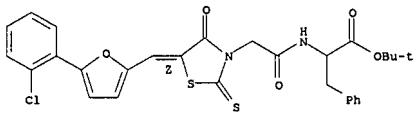
OTHER SOURCE(S): MARPAT 142:441839

AB The invention describes compds. and pharmaceutical compns. useful as inhibitors of ubiquitination. The compds. and compns. of the invention are useful as inhibitors of the biochem. pathways of organisms in which ubiquitination is involved. In particular, the compds. and compns. are useful for treating diseases caused by viruses such as poxviruses and retroviruses. The invention further provides for methods of treating smallpox, herpes virus and HIV infection in patients using the compds. and compns. of the invention. Preparation of selected rhodanine compds. is described.

IT 851305-41-4
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Rhodanine compds. and compns. for use as antiviral agents)
RN 851305-41-4 CAPLUS
CN Phenylalanine, N-[[(5Z)-5-[[5-(2-chlorophenyl)-2-furanyl]methylene]-4-oxo-2-thioxo-3-thiazolidinyl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

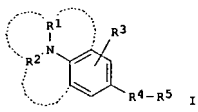


L7 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:57682 CAPLUS
DOCUMENT NUMBER: 142:159516
TITLE: The photoelectric conversion material, semiconductor electrode and photoelectric converter which uses the electrode
INVENTOR(S): Horiuchi, Tamotsu; Maruyama, Atsushi
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005019251	A	20050120	JP 2003-183493	20030626

PRIORITY APPLN. INFO.: JP 2003-183493 20030626

OTHER SOURCE(S): MARPAT 142:159516
GI

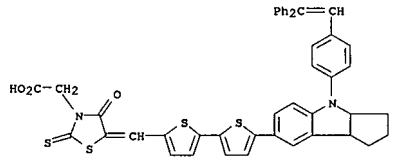


I

AB The material uses a compound I [R1 = (substituted) alkyl, (substituted) aralkyl, (substituted) alkenyl, (substituted) allyl, or (substituted) heterocyclic ring; R2 = linking group forming a structure with N; R1 and R2 may form a ring; R2, N and bonded benzene ring may bond to form a ring; R3 = H, halo, (substituted) alkyl, or (substituted) alkoxy group; R4 = bivalent aromatic condensed ring or bivalent heterocyclic ring ; R5 = = substituent having acidic group]. The electrode has a semiconductor layer coated on a surface-conductive substrate and a pigment adsorbed on the semiconductor layer; where the pigment contains ≥1 above compound I. The converter, especially for a photoelectrochem. cell, uses the above electrodes.

IT 829097-74-7
RL: MOA (Modifier or additive use); USES (Uses)
(semiconductor electrodes containing sensitizing pigments for photoelec. converters in photoelectrochem. cells)
RN 829097-74-7 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5'-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl][2,2'-bithiophen]-5-yl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

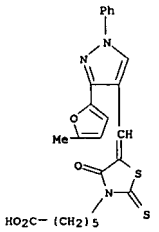


L7 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1068070 CAPLUS
DOCUMENT NUMBER: 142:168973
TITLE: A Novel Class of Inhibitors of Peptide Deformylase Discovered through High-Throughput Screening and Virtual Ligand Screening
AUTHOR(S): Howard, Michael H.; Cenizal, Teodorica; Gutteridge, Steven; Hanna, Wayne S.; Tao, Yong; Totrov, Maxim; Wittenbach, Vernon A.; Zheng, Ya-Jun
CORPORATE SOURCE: Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19711, USA
SOURCE: Journal of Medicinal Chemistry (2004), 47(27), 6669-6672
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:168973

AB Peptide deformylase (PDF) has been identified as a promising antibacterial and herbicide target. A structurally novel class of inhibitors containing a 2-thioxo-thiazolidin-4-one heterocycle substituted by an arylidene group at the 5-position and a hexanoic acid side chain at the 3-position was discovered independently via high-throughput screening and virtual ligand screening. Data mining and analog synthesis established a structure-activity relationship for the side chain region that is consistent with the docked structure.

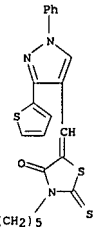
IT 370096-48-3 370096-55-2
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(peptide deformylase inhibitors: high-throughput and virtual ligand screening and preparation)

RN 370096-48-3 CAPLUS
CN 3-Thiazolidinehexanoic acid, 5-[[3-(5-methyl-2-furanyl)-1-phenyl-1H-pyrazol-4-yl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 370096-55-2 CAPLUS
CN 3-Thiazolidinehexanoic acid, 4-oxo-5-[[1-phenyl-3-(2-thienyl)-1H-pyrazol-4-yl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 13 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:927010 CAPLUS
DOCUMENT NUMBER: 141:376382
TITLE: Pin1-modulating compounds and methods of use for the treatment of Pin1-associated diseases, including cancer
INVENTOR(S): Bao, Lere; Kimzey, Amy
PATENT ASSIGNEE(S): Pintex Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 189 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004093803	A2	20041104	WO 2004-US11957	20040416
WO 2004093803	A3	20060803		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-463271P P 20030416

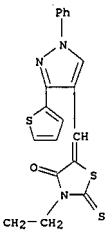
OTHER SOURCE(S): MARPAT 141:376382

AB The invention is directed to modulators, e.g., inhibitors, of Pin1 and Pin1-related proteins and the use of such modulators for treatment of Pin1 associated states, e.g., for the treatment of cancer. The present invention aims to provide photochemotherapeutic compds. with increased specificity as compared with known agents.

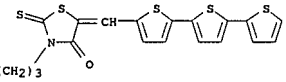
IT 312601-58-4 676647-88-4 676654-51-6
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Pin1-modulating compds. for treatment of Pin1-associated diseases, including cancer)

RN 312601-58-4 CAPLUS
CN 3-Thiazolidinepropanoic acid, 4-oxo-5-[[1-phenyl-3-(2-thienyl)-1H-pyrazol-4-yl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

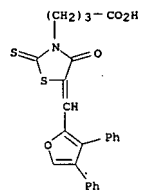
L7 ANSWER 13 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 676647-88-4 CAPLUS
CN 3-Thiazolidinebutanoic acid, 4-oxo-5-([2,2':5',2''-terthiophen]-5-ylmethylene)-2-thioxo- (9CI) (CA INDEX NAME)



RN 676654-51-6 CAPLUS
CN 3-Thiazolidinebutanoic acid, 5-[(3,4-diphenyl-2-furanyl)methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 14 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:781003 CAPLUS
DOCUMENT NUMBER: 141:298661
TITLE: Dye-sensitized photoelectric conversion device
INVENTOR(S): Ikeda, Masaaki; Shigaki, Koichiro; Inoue, Teruhisa
PATENT ASSIGNEE(S): Nippon Kayaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082061	A1	20040923	WO 2004-JP3203	20040311
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2518925	A1	20040923	CA 2004-2518925	20040311
EP 1628356	A1	20060222	EP 2004-719617	20040311
R: CH, DE, FR, GB, LI, FI				
CN 1762068	A	20060419	CN 2004-80006926	20040311
US 2006130249	A1	20060622	US 2005-548858	20050909

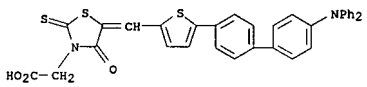
PRIORITY APPLN. INFO.: JP 2003-70321 A 20030314
JP 2003-73587 A 20030318
WO 2004-JP3203 W 20040311

AB The title photoelec. conversion device sensitized by organic dye is used for preparation of solar cell. Semiconductor micro particles with methine dye specified skeleton is used to prepare the photoelec. conversion element which has high conversion efficiency and high applicability. The semiconductor micro particles consist of titania, zinc, or tin.

IT 762269-58-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of dye-sensitized photoelec. conversion device)

RN 762269-58-9 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-[4'-(diphenylamino)[1,1'-biphenyl]-4-yl]-2-thienyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:430800 CAPLUS
DOCUMENT NUMBER: 140:423667
TITLE: A preparation of rhodanine derivatives, useful as inhibitors of ubiquitination
INVENTOR(S): Singh, Rajinder; Ramesh, Usha V.; Goff, Dane; Laidig, Guy; Issakani, Sarkiz D.; Huang, Jianing; Payan, Donald G.
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004043955	A1	20040527	WO 2003-US36747	20031113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003291024	A1	20040603	AU 2003-291024	20031113
EP 1597255	A1	20051123	EP 2003-783609	20031113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2006276520	A1	20061207	US 2005-534919	20050510

PRIORITY APPLN. INFO.: US 2002-426280P P 20021113
US 2003-514951P P 20031028
WO 2003-US36747 W 20031113

OTHER SOURCE(S): MARPAT 140:423667
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

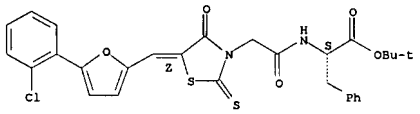
AB This invention describes rhodanine derivs. of formula I [wherein: A is (hetero)aryl; B is C1-6alkyl or C2-6alkenyl; X is S, O, etc.; Y is S, O, S(O), or SO2, etc.; R1 = H, NH2, C1-6alkyl, or C1-2alkenyl, etc.; R2 = H, halogen, C1-6alkyl, C0-6alkyl-(hetero)aryl, or NO2, etc.; R3 = H, C1-6alkyl, or C2-6alkenyl; or R3 and B together with the carbon atom to which they are attached form an alkenyl or a spirocyclic ring], useful as inhibitors of ubiquitination. The compds. and compns. of the invention are useful as inhibitors of the biochem. pathways of organisms in which ubiquitination is involved. The invention compds. were screened in MDM2 assay (measuring the attachment of ubiquitin to p53) and APC-11/APC-2 ligase assay (auto-ubiquitination). In particular, the compds. and

L7 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
compns. are useful for treating cell proliferative diseases such as cancers. For instance, rhodanine deriv. II was prepd. via addn. of Et thioglycolate to benzyl isothiocyanate, intramol. heterocyclization of the obtained carboxylate III, and condensation of furan deriv. IV with the obtained thiazolone V (example 1).

IT 691881-88-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of rhodanine derivs. and pharmaceutical compns. containing them, useful as inhibitors of ubiquitination)

RN 691881-88-6 CAPLUS
CN L-Phenylalanine, N-[[(5Z)-5-[[5-(2-chlorophenyl)-2-furanyl]methylene]-4-oxo-2-thioxo-3-thiazolidinyl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:291950 CAPLUS
DOCUMENT NUMBER: 140:315042
TITLE: Pin1-modulating compounds and methods of use for the treatment of Pin1-associated diseases, including cancer
INVENTOR(S): Mckee, Timothy D.; Suto, Robert K.; Tibbitts, Thomas; Sowadski, Janusz
PATENT ASSIGNEE(S): Pintex Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 166 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004028535	A1	20040408	WO 2003-US6675	20030303
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003225669	A1	20040419	AU 2003-225669	20030303
US 2004214872	A1	20041028	US 2003-379408	20030303
EP 1551396	A1	20050713	EP 2003-798653	20030303
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

PRIORITY APPLN. INFO.: US 2002-414077P P 20020926
WO 2003-US6675 W 20030303

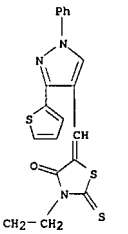
OTHER SOURCE(S): MARPAT 140:315042

AB The invention is directed to modulators, e.g., inhibitors, of Pin1 and Pin1-related proteins and the use of such modulators for treatment of Pin1 associated states, e.g., for the treatment of cancer. Synthetic methods are included.

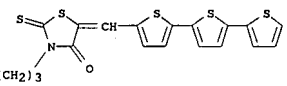
IT 312601-58-4 676647-88-4 676654-51-6
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Pin1-modulating compds. for treatment of Pin1-associated diseases, including cancer)

RN 312601-58-4 CAPLUS
CN 3-Thiazolidinepropanoic acid, 4-oxo-5-[[1-phenyl-3-(2-thienyl)-1H-pyrazol-4-yl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

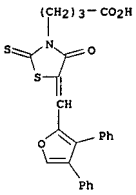
L7 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 676647-88-4 CAPLUS
CN 3-Thiazolidinebutanoic acid, 4-oxo-5-([2,2':5',2''-terthiophen]-5-ylmethylene)-2-thioxo- (9CI) (CA INDEX NAME)



RN 676654-51-6 CAPLUS
CN 3-Thiazolidinebutanoic acid, 5-[(3,4-diphenyl-2-furanyl)methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L7 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:205263 CAPLUS
DOCUMENT NUMBER: 141:136869
TITLE: Interactions between penicillin-binding proteins (PBPs) and two novel classes of PBP inhibitors, arylalkylidene rhodanines and arylalkylidene iminothiazolidin-4-ones
AUTHOR(S): Zervosen, Astrid; Lu, Wei-Ping; Chen, Zhouliang; White, Ronald E.; Demuth, Thomas P., Jr.; Frere, Jean-Marie
CORPORATE SOURCE: Centre for Protein Engineering, University of Liege, Liege, B-4000, Belg.
SOURCE: Antimicrobial Agents and Chemotherapy (2004), 48(3), 961-969
CODEN: AMACCQ; ISSN: 0066-4804
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

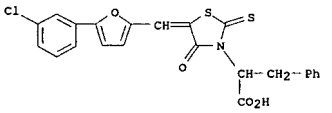
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Several non-β-lactam compds. were active against various gram-pos. and gram-neg. bacterial strains. The MICs of arylalkylidene rhodanines, e.g. I and II, and arylalkylidene iminothiazolidin-4-ones, e.g. III and IV, were lower than those of ampicillin and cefotaxime for methicillin-resistant Staphylococcus aureus MI339 and vancomycin-resistant Enterococcus faecium EF12. Several compds. were found to inhibit the cell wall synthesis of S. aureus and the last two steps of peptidoglycan biosynthesis catalyzed by ether-treated cells of Escherichia coli or cell wall membrane prepns. of Bacillus megaterium. The effects of the arylalkylidene rhodanines and arylalkylidene iminothiazolidin-4-one derivs. on E. coli PBP 3 and PBP 5, Streptococcus pneumoniae PBP 2xS (PBP 2x from a penicillin-sensitive strain) and PBP 2xR (PBP 2x from a penicillin-resistant strain), low-affinity PBP 2a of S. aureus, and the Actinomadura sp. strain R39 and Streptomyces sp. strain R61 DD-peptidases were studied. Some of the compds. exhibited inhibitory activities in the 10 to 100 μM concentration range. The inhibition of PBP 2xS by several of them appeared to be noncompetitive. The dissociation constant for the best inhibitor (Ki = 10 μM) was not influenced by the presence of the substrate.

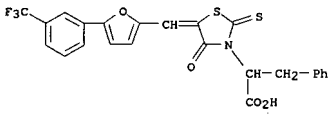
IT 724784-13-8 724784-14-9 724784-15-0
724784-20-7 724784-28-5 724784-29-6
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); BIOL (Biological study)
(interactions between penicillin-binding proteins and penicillin-binding protein inhibitors arylalkylidene rhodanines and arylalkylidene iminothiazolidinones)

RN 724784-13-8 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-(3-chlorophenyl)-2-furanyl]methylene]-4-oxo-α-(phenylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)

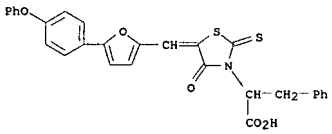
L7 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 724784-14-9 CAPLUS
CN 3-Thiazolidineacetic acid, 4-oxo-α-(phenylmethyl)-2-thioxo-5-[[5-[3-(trifluoromethyl)phenyl]-2-furanyl]methylene]- (9CI) (CA INDEX NAME)

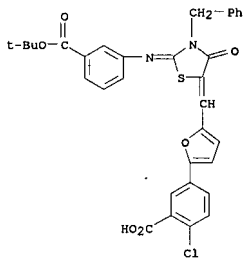


RN 724784-15-0 CAPLUS
CN 3-Thiazolidineacetic acid, 4-oxo-5-[[5-(4-phenoxyphenyl)-2-furanyl]methylene]-α-(phenylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)



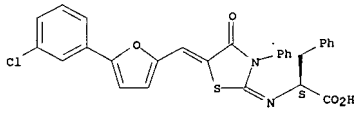
RN 724784-20-7 CAPLUS
CN Benzoic acid, 2-chloro-5-[5-[[2-[[3-[(1,1-dimethylethoxy)carbonyl]phenyl]imino]-4-oxo-3-(phenylmethyl)-5-thiazolidinylidene]methyl]-2-furanyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 724784-28-5 CAPLUS
CN L-Phenylalanine, N-[5-[[5-(3-chlorophenyl)-2-furanyl]methylene]-4-oxo-3-phenyl-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)

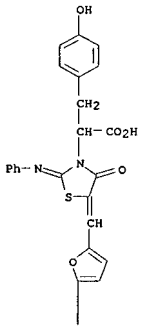
Absolute stereochemistry.
Double bond geometry unknown.



RN 724784-29-6 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-(3-chlorophenyl)-2-furanyl]methylene]-α-[(4-hydroxyphenyl)methyl]-4-oxo-2-(phenylimino)- (9CI) (CA INDEX NAME)

L7 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A

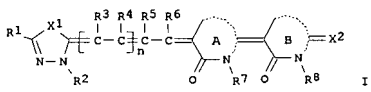
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:948066 CAPLUS
DOCUMENT NUMBER: 140:22035
TITLE: Photoelectric converters using dyes with good conversion efficiency
INVENTOR(S): Horiuchi, Tamotsu; Miura, Hidetoshi
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

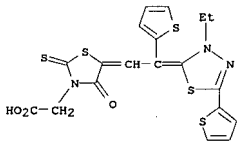
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003346925	A	20031205	JP 2002-150014	20020524
PRIORITY APPLN. INFO.:			JP 2002-150014	20020524

OTHER SOURCE(S): MARPAT 140:22035
GI



I

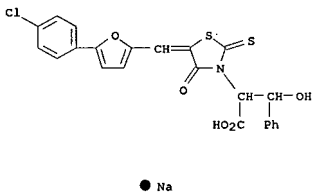
AB The converters use the dyes I (R1, R3-R6 = H, alkyl, aryl, alkoxy, alkylthio, heterocyclic residue; R2 = alkyl; R7, R8 = acidic group-containing substituent; A, B = 5-7 membered ring-forming heterocyclic ring; X1 = O, S; X2 = X1, dicyanomethylene, cyanoacetato; m, n = 0-2; C-C double bond may be E or Z type).
IT 629597-27-9
RL: DEV (Device component use); USES (Uses)
(dye; photoelec. converters using dyes with good conversion efficiency)
RN 629597-27-9 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[2-[3-ethyl-5-(2-thienyl)-1,3,4-thiadiazol-2(3H)-ylidene]-2-(2-thienyl)ethylidene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L7 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:904208 CAPLUS
DOCUMENT NUMBER: 141:33248
TITLE: Development of a screening assay to measure the loss of antibacterial activity in the presence of proteins: its use in optimizing compound structure
AUTHOR(S): Roychoudhury, Siddhartha; Brill, Jessica L.; Lu, Wei-Ping; White, Ronald E.; Chen, Zhuoliang; Demuth, Thomas P., Jr.
CORPORATE SOURCE: Clinical Affairs, Ortho-McNeil Pharmaceutical Inc., Hamilton, OH, 45011, USA
SOURCE: Journal of Biomolecular Screening (2003), 8(5), 555-558
CODEN: JBISF3; ISSN: 1087-0571
PUBLISHER: Sage Publications
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An assay quantifying the loss of antibacterial potency of compds., originally identified via target-based screening, in the presence of increasing albumin concentration was developed and used as a technique to measure potential association of compds. with proteins unrelated to their mol. target. Min. inhibitory concns. (MICs) of test compds. were measured against Staphylococcus aureus strain ATCC 6538 in the presence of 0-12 μM bovine serum albumin (BSA). The linear regression coefficient r2 for the correlation between MIC and BSA concentration was ≥0.9 for 49 and >0.5 for 62 out of a total of 69 compds. tested. The slope of these correlations varied widely from <1 to 99, suggesting that the loss of potency due to a given concentration of BSA could vary from compound to compound due to wide variation in the apparent stoichiometry for protein-ligand association Follow-up expts. using addnl. proteins and a fatty acid, oleic acid, showed that this compound:BSA association was not protein specific, but was likely driven by hydrophobicity. The method described in this report can be used to optimize compound design and minimize this undesirable effect.
IT 701979-51-3, PGE 1744694
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(development of a screening assay to measure the loss of antibacterial activity in presence of proteins)
RN 701979-51-3 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-(4-chlorophenyl)-2-furanyl]methylene]-α-(hydroxyphenylmethyl)-4-oxo-2-thioxo-, monosodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



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REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:796481 CAPLUS
DOCUMENT NUMBER: 139:307755
TITLE: Preparation of thiazolidinecarboxamides as prostaglandin F2α receptor modulators
INVENTOR(S): Page, Patrick; Jorand-Lebrun, Catherine; Quattropani, Anna; Pomel, Vincent; Schwarz, Matthias; Hamelin, Estelle; Thomas, Russell J.
PATENT ASSIGNEE(S): Applied Research Systems Ars Holding N.V., Neth. Antilles
SOURCE: PCT Int. Appl., 190 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082278	A1	20031009	WO 2003-EP50083	20030327
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2477265	A1	20031009	CA 2003-2477265	20030327
AU 2003240757	A1	20031013	AU 2003-240757	20030327
EP 1487442	A1	20041222	EP 2003-730168	20030327
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003008748	A	20050111	BR 2003-8748	20030327
CN 1655780	A	20050817	CN 2003-811560	20030327
ZA 2004006763	A	20050930	ZA 2004-6763	20030327
JP 2005531524	T	20051020	JP 2003-579816	20030327
NO 2004004262	A	20041007	NO 2004-4262	20041007
US 2005215605	A1	20050929	US 2005-508014	20050512
PRIORITY APPLN. INFO.:			EP 2002-100314 A	20020328
			WO 2003-EP50083 W	20030327

OTHER SOURCE(S): MARPAT 139:307755
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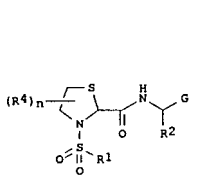
L7 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



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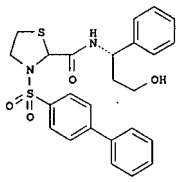


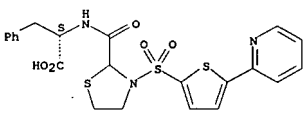
II

AB Title compds. I [wherein G = alkyl(hetero)aryl, alkyl(hetero)cycloalkyl, (hetero)aryl, or (hetero)cycloalkyl which may be fused with cycloalkyl or (hetero)aryl groups; R1 = (hetero)aryl or (heterocyclo)alkyl which may be fused with (hetero)cycloalkyl or (hetero)aryl groups; R2 = H, (alkyl)carboxy, (alkyl)acyl, (alkyl)alkoxycarbonyl, (alkyl)aminocarbonyl, alkylacyloxy, alkylacylamino, alkylureido, alkylamino, alkylalkoxy, alkylsulfanyl, alkylsulfinyl, alkylsulfonyl(amino), alkylsulfonyloxy, alkyl, alkenyl, alkynyl, (hetero)aryl, (hetero)cycloalkyl, alkyl(hetero)aryl, alkyl(hetero)cycloalkyl, alkenyl(hetero)aryl, or alkynyl(hetero)aryl; or CR2G = cycloalkyl; R4 = alkyl, alkenyl, or alkynyl; n = 0-2; geometrical isomers, optically active forms, and pharmaceutically acceptable salts and pharmaceutically active derivs. thereof] were prepared as prostaglandin F2α (PGF2α) receptor modulators. For example, conversion of [1,1'-biphenyl]-4-sulfonic acid to the acid chloride with thionyl chloride, followed by coupling with N-[(1S)-3-hydroxy-1-phenylpropyl]-1,3-thiazolidine-2-carboxamide•HCl in the presence of TEA in DCM and chromatog. separation of the diastereomers gave (2S)-II and (2R)-II in an overall yield of 58%. (2S)-II exhibited binding affinity for the human PGF2α receptor with Ki of 0.065 μM and inhibited inositol triphosphate synthesis and Ca2+ mobilization in HEK/EBNA cells expressing the human prostaglandin PGF2α receptor with IC50 values of 0.185 μM and 0.048, resp. PGF2α- or fluprostenol-induced uterine contractions were reduced by 26% in non-pregnant rats 40 min after i.v. administration of (2S)-II at a cumulative dose of 30 mg/kg, and spontaneous uterine contractions were suppressed by >50% in late-term pregnant rats upon i.v. administration of (2S)-II over 10 min at a cumulative dose of 30 mg/kg. Thus, I and their pharmaceutical compns. are useful for the treatment and/or prophylaxis of preterm labor, premature birth, dysmenorrhea, and for stopping labor prior to cesarean delivery.

IT 612533-41-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PGF2α ligand; preparation of thiazolidinecarboxamides as prostaglandin F2α receptor modulators for treatment of preterm labor, premature birth, dysmenorrhea, and for stopping labor)

RN 612533-41-2 CAPLUS
CN L-Phenylalanine, N-[[3-[[5-(2-pyridinyl)-2-thienyl]sulfonyl]-2-thiazolidinyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



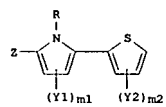
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:773825 CAPLUS
DOCUMENT NUMBER: 139:310012
TITLE: Photoelectric element with high conversion efficiency from thienylpyrrole dye-sensitized oxide semiconductor microparticle
INVENTOR(S): Ikeda, Masaaki; Shigaki, Koichiro; Inoue, Teruhisa
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003282165	A	20031003	JP 2003-7360	20030115
PRIORITY APPLN. INFO.:			JP 2002-7062 A	20020116

OTHER SOURCE(S): MARPAT 139:310012
GI



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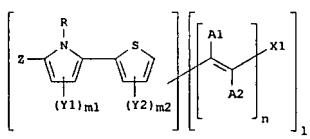
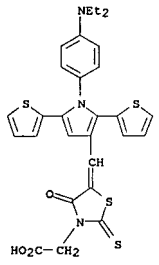


II

AB The photoelec. element comprises an oxide semiconductor microparticle thin film sensitized by a dye I (R, Z = H, alkyl, aromatic hydrocarbon residue, heterocyclyl; Y1, Y2 = substituent may form ring; and m1, m2 = integer 0-3). Alternatively, the dye is represented by II (A1, A2 = aromatic hydrocarbon residue, heterocyclyl, etc.; X1 = aromatic hydrocarbon residue, heterocyclyl, cyano, etc.; and l = integer 1-3). The oxide semiconductor microparticle may be made from TiO2. The photoelec. element is used for a solar cell.

IT 609848-66-0P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of thienylpyrrole dye for photoelec. element)

RN 609848-66-0 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[1-[4-(diethylamino)phenyl]-2,5-di-2-thienyl-1H-pyrrol-3-yl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)

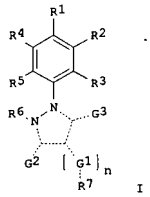


L7 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:719505 CAPLUS
DOCUMENT NUMBER: 139:240341
TITLE: Pin1 peptidyl prolyl isomerase-modulating heterocyclic compounds and methods of use for the treatment of cancer and other Pin1-associated conditions
INVENTOR(S): McKee, Timothy D.; Suto, Robert K.
PATENT ASSIGNEE(S): Pintex Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074550	A2	20030912	WO 2003-US6394	20030303
WO 2003074550	A3	20031204		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003213673	A1	20030916	AU 2003-213673	20030303
US 2004176372	A1	20040909	US 2003-379377	20030303
PRIORITY APPLN. INFO.:			US 2002-361206P P	20020301
			WO 2003-US6394 W	20030303

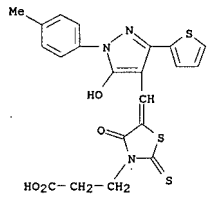
OTHER SOURCE(S): MARPAT 139:240341
GI

L7 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



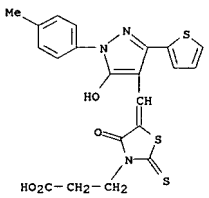
I

AB The invention discloses modulators, e.g. inhibitors, of Pin1 and Pin1-related proteins, and the use of such modulators for treatment of Pin1 associated states, e.g., for the treatment of cancer. Modulators of the invention include I [dashed lines = single or double bond; n = 0-2; G1 = CH2, CH, N; G2, G3 = H, alkyl, aryl, O, etc.; R1-R7 = H, acyl, (un)substituted alkyl, etc.]. Determination of Pin1 overexpression in a variety of tumor types is also presented.
IT 596807-21-5 596807-21-5D, derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Pin1 peptidyl prolyl isomerase-modulating heterocyclic compds. for treatment of cancer and other Pin1-associated conditions)
RN 596807-21-5 CAPLUS
CN 3-Thiazolidinepropanoic acid, 5-[[5-hydroxy-1-(4-methylphenyl)-3-(2-thienyl)-1H-pyrazol-4-yl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



RN 596807-21-5 CAPLUS
CN 3-Thiazolidinepropanoic acid, 5-[[5-hydroxy-1-(4-methylphenyl)-3-(2-

L7 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
thienyl)-1H-pyrazol-4-yl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:417731 CAPLUS
DOCUMENT NUMBER: 139:6866
TITLE: Preparation of 5-(benzylidene)rhodanines and analogs as antidiabetics and antitumor agents
INVENTOR(S): Pfahl, Magnus; Tachdjian, Catherine; Spruce, Lyle W.; Al-Shamma, Hussien A.; Boudjelal, Mohamed; Fanjul, Andrea N.; Wiemann, Torsten R.; Pleynet, David P. M.
PATENT ASSIGNEE(S): Maxia Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 118 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003043998	A1	20030530	WO 2002-US36583	20021115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002352706	A1	20030610	AU 2002-352706	20021115
US 2003144329	A1	20030731	US 2002-298024	20021115
US 7071218	B2	20060704		
EP 1456187	A1	20040915	EP 2002-789654	20021115
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JP 2005513026	T	20050512	JP 2003-545635	20021115
US 2003216432	A1	20031120	US 2003-384352	20030306
US 7102000	B2	20060905		
US 2004034004	A1	20040219	US 2003-384391	20030306
US 7196108	B2	20070327		
CA 2478342	A1	20030918	CA 2003-2478342	20030307
CA 2478765	A1	20030918	CA 2003-2478765	20030307
WO 2003075924	A1	20030918	WO 2003-US6784	20030307
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WO 2003075858	A2	20030918	WO 2003-US7240	20030307
WO 2003075858	A3	20040318		
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L7 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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AU 2003223233	A1	20030922	AU 2003-223233		20030307
AU 2003223233	A2	20030922			
AU 2003225682	A2	20030922	AU 2003-225682		20030307
AU 2003225682	A1	20030922			
EP 1487446	A2	20041222	EP 2003-719363		20030307
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EP 1487443	A1	20041222	EP 2003-744197		20030307
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BR 2003008278	A	20050209	BR 2003-8278		20030307
CN 1649586	A	20050803	CN 2003-810148		20030307
JP 2005525371	T	20050825	JP 2003-574134		20030307
JP 2005530705	T	20051013	JP 2003-574198		20030307
NO 2004004250	A	20041103	NO 2004-4250		20041007
US 2006160796	A1	20060720	US 2006-385204		20060320
US 2006241138	A1	20061026	US 2006-476330		20060628
PRIORITY APPLN. INFO.:			US 2001-334794P	P	20011115
			US 2002-362702P	P	20020308
			US 2002-362732P	P	20020308
			US 2002-298024	A3	20021115
			WO 2002-US36583	W	20021115
			US 2003-384352	A3	20030306
			WO 2003-US6784	W	20030307
			WO 2003-US7240	W	20030307

OTHER SOURCE(S): MARPAT 139:6866
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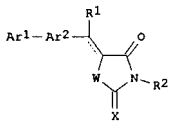
L7 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



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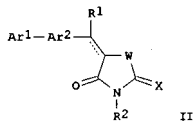
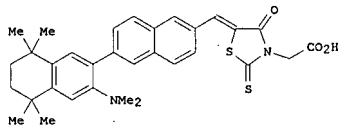


II



III

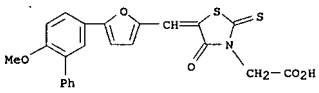
AB Title benzylidene-substituted 2-thioxo-4-oxothiazolidines and analogs I and II [wherein Ar1 = 2-(R7)-4-(R5)-5-(R6)C6H2 optionally substituted with R8; Ar2 = (hetero)aryl; W = S, O, or NR3; X = O or S; R1 = H or (un)substituted organic radical comprising 1-4 C's; R2 = (un)substituted organic radical comprising 1-12 C's; R3 = H or (un)substituted organic radical comprising 1-12 C's; C2R5R6 = 5-7 membered non-aromatic ring optionally comprising 1-2 heteroatoms; R7 and R8 = independently H or (un)substituted alkyl or amino; and pharmaceutically acceptable salts thereof] were prepared as liver X receptor (LXR), peroxisome proliferator-activated receptor γ (PPARγ), protein kinase Akt/PKB (AKT-1/PKBa) inhibitors. For example, esterification of 6-hydroxynaphthoic acid with EtOH (98%), followed by protection with triflic anhydride in CH2Cl2 gave 6-(trifluoromethanesulfonyloxy)naphthalene-2-carboxylic acid Et ester (100%). Reduction of the ester to the alc. (72%) using DIBAL, conversion to the aldehyde (94%) with PCC, and Suzuki coupling with (3-dimethylamino-5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalene-2-yl)boronic acid provided the 6-(tetrahydronaphthalenyl)naphthalene-2-carboxaldehyde (71%). Coupling of the aldehyde with rhodanine-3-acetic acid in the presence of piperidine and acetic acid in toluene afforded III (33% yield, 99.5% purity). The latter antagonized both LXR and PPARγ activation in vitro in a dose-dependent fashion, reaching inhibition values of about 80%-90% at 10 μM. Oral administration of III to rats maintained on a high cholesterol atherogenic diet resulted in significant redns. in total serum cholesterol and low d. lipoprotein cholesterol levels with accompanying elevations in high d. lipoprotein cholesterol levels compared

L7 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

to controls. In addn., III displayed selective potency against various human cancer cell lines; e.g. at a concn. of 10 μM, about 80% of breast cancer cells were killed compared to ≤ 50% of other cell lines studied. Thus, I and II are useful in the treatment of diseases, such as, cancer, metabolic disorders, Type 2 Diabetes, dyslipidemia, and/or hypercholesterolemia.

IT 532440-69-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antidiabetic and/or antitumor agent; preparation (benzylidene)rhodanines and analogs for treatment of cancer, diabetes, and other diseases)

RN 532440-69-0 CAPLUS
CN 3-Thiazolidineacetic acid, 5-[[5-(6-methoxy[1,1'-biphenyl]-3-yl)-2-furanyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:143481 CAPLUS
DOCUMENT NUMBER: 138:195809
TITLE: High sensitive silver halide photographic material containing methine dye with linked chromophores
INVENTOR(S): Kobayashi, Suguru; Takizawa, Hiroo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003057777	A	20030226	JP 2001-248053	20010817
PRIORITY APPLN. INFO.:			JP 2001-248053	20010817

AB The material has ≥1 photosensitive Ag halide emulsion layer containing the methine dye D1r2(L1qaD2q1)r1·CIy [L1 = linkage; D1, D2 = chromophore; q1, r1, r2 = 1-4; (q1 + r1 + r2) = 3-5; qa = 1-4; CI = charge neutralizing ion; y = the number for charge neutralization].

IT 499770-01-3P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novel methine dye with linked chromophores for photog. sensitizer)

RN 499770-01-3 CAPLUS
CN Benzothiazolium, 3-[2-[2-[2-[[[3-[2-[2-[2-[3-(carboxymethyl)tetrahydro-2,4,6-trioxo-5-[[3-(4-sulfobutyl)naphth[2,1-d]oxazol-2(3H)-ylidene]ethylidene]-1(2H)-pyrimidinyl]ethoxy]ethoxy]ethyl]tetrahydro-2,4,6-trioxo-5-[[3-(4-sulfobutyl)naphth[2,1-d]oxazol-2(3H)-ylidene]ethylidene]-1(2H)-pyrimidinyl]acetyl]amino]ethoxy]ethoxy]ethyl]-2-[[5-phenyl-3-(3-sulfopropyl)-2(3H)-benzothiazolylidene]methyl]-5-(2-thienyl)-, inner salt, disodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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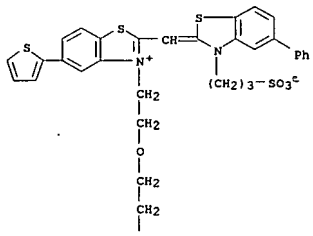
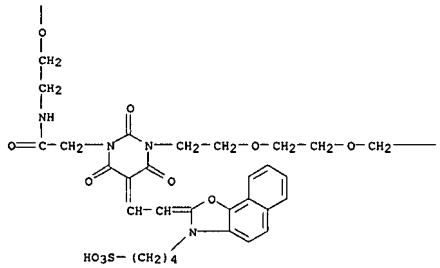


PAGE 2-A



L7 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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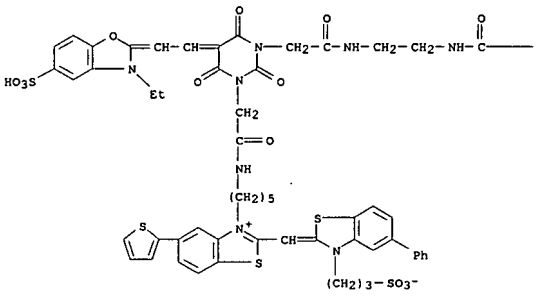
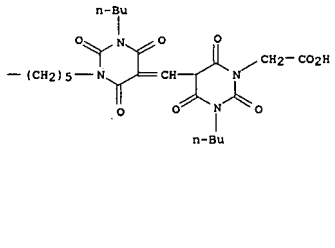


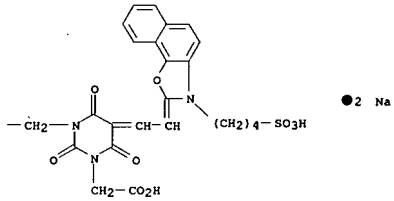
PAGE 1-B



●2 Na

L7 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-B



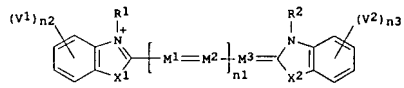
IT 499770-03-5
RL: TEM (Technical or engineered material use); USES (Uses)
(novel methine dye with linked chromophores for photog. sensitizer)
RN 499770-03-5 CAPLUS
CN Benzothiazolium, 3-[5-[[[3-[2-[[2-[[6-[3-butyl-5-[[1-butyl-3-(carboxymethyl)hexahydro-2,4,6-trioxo-5-pyrimidinyl]methylene]tetrahydro-2,4,6-trioxo-1(2H)-pyrimidinyl]-1-oxohexyl]amino]ethyl]amino]-2-oxoethyl]-5-[(3-ethyl-5-sulfo-2(3H)-benzoxazolylidene)ethylidene]tetrahydro-2,4,6-trioxo-1(2H)-pyrimidinyl]acetyl]amino]pentyl]-2-[[5-phenyl-3-(3-sulfopropyl)-2(3H)-benzothiazolylidene]methyl]-5-(2-thienyl)-, inner salt, disodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:69123 CAPLUS
DOCUMENT NUMBER: 138:144993
TITLE: New methine dye and silver halide photographic material containing the same
INVENTOR(S): Kobayashi, Suguru; Takizawa, Hiroo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003029366	A	20030129	JP 2001-218231	20010718
PRIORITY APPLN. INFO.:			JP 2001-218231	20010718

OTHER SOURCE(S): MARPAT 138:144993
GI



I

AB The invention relates to a silver halide photog. material comprised of a support at least one Ag halide photog. emulsion layer, wherein the Ag halide photog. emulsion layer contains the new methine dye represented by Dye1-(L1-(Dye2)m1)m2.(CI1)y1 [L1 = connecting group; m1 = 1-5; m2 = 1-5; CI1 = counter ion; y1 = number to neutralize; Dye1 = first chromophore represented by I; Dye2 = second chromophore; X1, X2 = O, S, NR6, CR7R8; R6-8 = H, alkyl, alkenyl, aryl, heterocyclyl; R1, R2 = H, alkyl, alkenyl, aryl, heterocyclyl; M1-3 = methine; n1 = 0-3; n2, n3 = 0-4; V1, V2 = substituent; L1 connects to Dye1 via R1, R2, V1, or V2]. The photog. material shows improved sensitivity.
IT 492453-13-1 492453-14-2
RL: MOA (Modifier or additive use); USES (Uses)
(new methine dye as spectral sensitizer in silver halide photog. material to improve sensitivity)
RN 492453-13-1 CAPLUS
CN Benzothiazolium, 3-[6-[[6-[2-[(3-ethyl-6-sulfobenzothiazolium-2-yl)methylene]-6-sulfo-3(2H)-benzothiazolyl]-1-oxohexyl]oxy]hexyl]-2-[[3-(3-sulfopropyl)-5-(2-thienyl)-2(3H)-benzothiazolylidene]methyl]-5-(2-thienyl)-, bis(inner salt), sodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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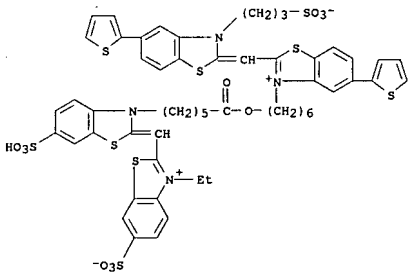

PAGE 2-A

RN 492453-14-2 CAPLUS
CN Benzothiazolium, 3-[2-[2-[2-[[6-[2-[(3-ethyl-6-sulfobenzothiazolium-2-yl)methylene]-6-sulfo-3(2H)-benzothiazolyl]-1-oxohexyl]oxy]ethoxy]ethoxy]ethyl]-2-[[3-(3-sulfopropyl)-5-(2-thienyl)-2(3H)-benzothiazolylidene]methyl]-5-(2-thienyl)-, bis(inner salt), sodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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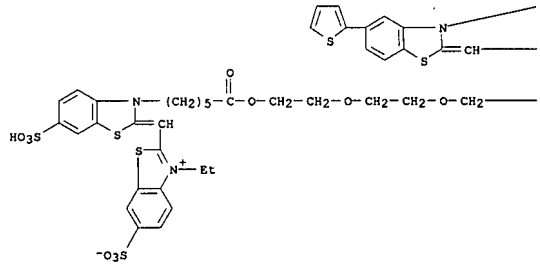
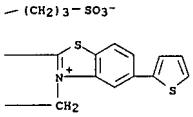


PAGE 1-B



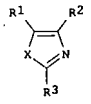
L7 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:813909 CAPLUS
DOCUMENT NUMBER: 137:325416
TITLE: Preparation of substituted imidazoles/oxazoles/thiazoles as large conductance calcium-activated K channel openers
INVENTOR(S): Hongu, Mitsuya; Hosaka, Thoshihiro; Kashiwagi, Toshihiko; Kono, Rikako; Kobayashi, Hiroyuki
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 302 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

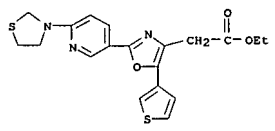
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083111	A2	20021024	WO 2002-JP3723	20020415
WO 2002083111	A3	20040415		
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, SG, SI, SK, TN, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2444596	A1	20021024	CA 2002-2444596	20020415
AU 2002246397	A1	20021028	AU 2002-246397	20020415
HU 200303829	A2	20040301	HU 2003-3829	20020415
CN 1503786	A	20040609	CN 2002-808370	20020415
EP 1432690	A2	20040630	EP 2002-714577	20020415
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002008956	A	20040713	BR 2002-8956	20020415
JP 2004531522	T	20041014	JP 2002-580915	20020415
NZ 529043	A	20061130	NZ 2002-529043	20020415
US 2004127527	A1	20040701	US 2004-474850	20040210
AU 2005202751	A1	20050714	AU 2005-202751	20050623
PRIORITY APPLN. INFO.:			JP 2001-116436 A	20010416
			JP 2001-249671 A	20010820
			AU 2002-246397 A3	20020415
			WO 2002-JP3723 W	20020415

OTHER SOURCE(S): MARPAT 137:325416
GI

L7 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

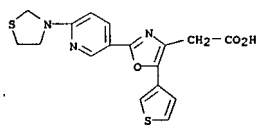


AB The title compds. [I; X = NR4, O, S; R1, R2 = H, halo, CO2H, etc.; R3 = aryl, heterocyclyl, alkyl; R4 = H, alkyl], useful in the prophylaxis and/or treatment for pollakiuria or urinary incontinence, were prepared Thus, reacting 5-ethyl-2-iodo-4-(3-pyridyl)imidazole with 3-(hydroxymethyl)thiophene-2-boric acid in the presence of Pd(PPh3)4 and aqueous 2M Na2CO3 in dimethoxyethane afforded I.2HCl (X = NH; R1 = Et; R2 = 3-pyridyl; R3 = 3-(hydroxymethyl)thien-2-yl] which showed 100% inhibition time of 10-20 min in test on the rhythmic bladder contractions induced by substance P in anesthetized rats.
IT 473691-96-2P 473691-99-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazoles/oxazoles/thiazoles as large conductance calcium-activated K channel openers)
RN 473691-96-2 CAPLUS
CN 4-Oxazoleacetic acid, 2-[6-(3-thiazolidinyl)-3-pyridinyl]-5-(3-thienyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 473691-99-5 CAPLUS
CN 4-Oxazoleacetic acid, 2-[6-(3-thiazolidinyl)-3-pyridinyl]-5-(3-thienyl)-, sodium salt (9CI) (CA INDEX NAME)

L7 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



● Na

L7 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:51438 CAPLUS
DOCUMENT NUMBER: 136:118447
TITLE: Preparation of benzimidazolecarboxylates and related compounds as viral polymerase inhibitors
INVENTOR(S): Beaulieu, Pierre Louis; Fazal, Gulrez; Gillard, James; Kukolj, George; Austel, Volkhard
PATENT ASSIGNEE(S): Boehringer Ingelheim (Canada) Ltd., Can.
SOURCE: PCT Int. Appl., 322 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004425	A2	20020117	WO 2001-CA989	20010704
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002065418	A1	20020530	US 2001-898297	20010703
US 6448281	B2	20020910		
CA 2412718	A1	20020117	CA 2001-2412718	20010704
EP 1301487	A2	20030416	EP 2001-951274	20010704
EP 1301487	B1	20061122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004502761	T	20040129	JP 2002-509292	20010704
AT 346049	T	20061215	AT 2001-951274	20010704
US 6479508	B1	20021112	US 2001-995099	20011127
CA 2439176	A1	20020912	CA 2002-2439176	20020306
WO 2002070739	A2	20020912	WO 2002-CA323	20020306
WO 2002070739	A3	20030530		
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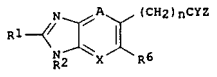
AU 2002244566	A1	20020919	AU 2002-244566	20020306
EP 1370682	A2	20031217	EP 2002-712681	20020306
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200400039	A2	20040428	HU 2004-39	20020306

L7 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

JP 2004520839	T	20040715	JP 2002-570761		20020306
NZ 528644	A	20050527	NZ 2002-528644		20020306
US 2003232816	A1	20031218	US 2002-238282		20020910
US 6794404	B2	20040921			
US 2004110126	A1	20040610	US 2004-471164		20040205
US 2004224955	A1	20041111	US 2004-851710		20040521
PRIORITY APPLN. INFO.:			US 2000-216084P	P	20000706
			US 2001-274374P	P	20010308
			US 2001-281343P	P	20010405
			US 2001-898297	A3	20010703
			WO 2001-CA989	W	20010704
			US 2001-995099	A3	20011127
			WO 2002-CA323	W	20020306
			US 2002-238282	A1	20020910

OTHER SOURCE(S): MARPAT 136:118447
GI



I

AB Title compds. [I; X = CH, N; Y = O, S; Z = OH, NH2; NMeR3, NHR3, OR3, 5-6 membered (substituted) heterocyclyl; A = N, COR7, CR5; R5 = H, halo, alkyl; R7 = H, alkyl; X and A are not both N; R6 = H, halo, alkyl, OR7; R7 = H , alkyl; R1 = (substituted) hetero(bi)cyclyl, Ph, phenylalkyl, alkenyl, phenylalkenyl, cycloalkyl, alkyl, CF3; R2 = (substituted) alkyl, cycloalkyl, cycloalkylalkyl, bicycloalkyl, adamantyl, Ph, pyridyl; R3 = H, alkyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl, alkenyl, cycloalkylalkenyl, arylalkenyl, dialkylamino, heterocyclyl, etc.; n = 0, 1], were prepared Thus, Me 3-amino-4-cyclohexylaminobenzoate (preparation given), 2-pyridinecarboxaldehyde, and Oxone were stirred in DMF to give 80% Et 1-cyclohexyl-2-pyridin-2-yl-1H-benzimidazole-5-carboxylate, which was saponified with aqueous NaOH in MeOH to give 91% 1-cyclohexyl-2-pyridin-2-yl-1H-benzimidazole-5-carboxylic acid. The latter inhibited hepatitis C virus RNA dependent polymerase (NS5B) with IC50 = 1-5 μM.

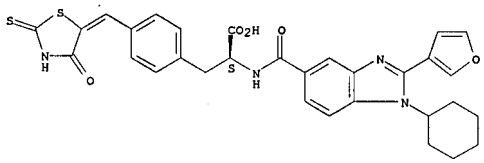
IT 390811-18-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzimidazolecarboxylates and related compds. as viral polymerase inhibitors)

RN 390811-18-4 CAPLUS

L7 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN L-Phenylalanine, N-[[1-cyclohexyl-2-(3-furanyl)-1H-benzimidazol-5-yl]carbonyl]-4-[(4-oxo-2-thioxo-5-thiazolidinylidene)methyl]- (9CI) (CA INDEX NAME)

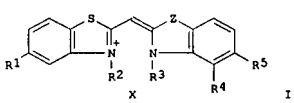
Absolute stereochemistry.
Double bond geometry unknown.



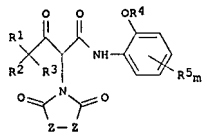
L7 ANSWER 28 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:265975 CAPLUS
DOCUMENT NUMBER: 130:289169
TITLE: Color photographic silver halide material with improved sensitivity and reduced yellow fog
INVENTOR(S): Weimann, Ralf; Misfeldt, Michael; Geiger, Markus
PATENT ASSIGNEE(S): Agfa-Gevaert Ag, Germany
SOURCE: Ger. Offen., 30 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19745886	A1	19990422	DE 1997-19745886	19971017
US 6010838	A	20000104	US 1998-167476	19981007
JP 11212206	A	19990806	JP 1998-307807	19981015
PRIORITY APPLN. INFO.:			DE 1997-19745886 A	19971017

OTHER SOURCE(S): MARPAT 130:289169
GI



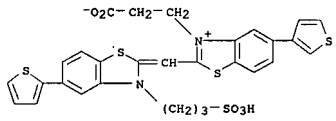
X I



II

AB In the color photog. material comprising a support, at least 1 red-sensitive Ag halide emulsion layer containing a cyan coupler, at least 1 green-sensitive Ag halide emulsion layer containing a magenta coupler, at least 1 blue-sensitive Ag halide emulsion layer containing a yellow coupler, and optional further layers, the Ag halide contains at least 95 mol.% AgCl, the blue-sensitive layer is spectral sensitized by I (R1 = 2-thienyl, 3-thienyl; R2, R3 = alkyl, sulfoalkyl, carboxyalkyl, (CH2)nSO2NHSO2-alkyl, (CH2)nSO2NHCO-alkyl, (CH2)nCONHSO2-alkyl, (CH2)nCONHCO-alkyl; R4, R5 = H, halo, alkyl, methoxy, aryl, 2-furanyl, 3-furanyl, 2-thienyl, 3-thienyl, 1-pyrrolyl, 2-pyrrolyl, 3-pyrrolyl,

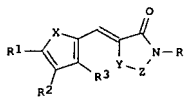
L7 ANSWER 28 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
1-indolyl, N-carbazolyl, 2-isoindolyl; R4 joining together with R5 may form benzene or naphthalene ring; Z = O, S; n = 1-6; X = counterion), and contains a yellow coupler II (R1-3 = alkyl; R2 joining together with R3 may form 3- to 6-membered ring; R4 = alkyl, cycloalkyl, aryl; R5 = halo, alkyl, alkoxy, aryloxy, alkoxycarbonyl, alkylsulfonyl, alkylcarbamoyl, arylcarbamoyl, alkylsulfamoyl, arylsulfamoyl, alkylcarbonamido, alkylsulfonamido, arylsulfonamido; m = 0-3; Z1 = O, NR6; Z2 = NR7, CR8R9; R6-9 = H, substituent). By combining the yellow coupler and blue sensitizer, the color photog. material shows improved blue-sensitivity and
reduced yellow fog.
IT 222534-78-3
RL: MOA (Modifier or additive use); USES (Uses)
(blue-sensitive layer of color photog. silver halide material spectrally sensitized with)
RN 222534-78-3 CAPLUS
CN Benzothiazolium, 3-(2-carboxyethyl)-2-[[3-(3-sulfopropyl)-5-(2-thienyl)-2(3H)-benzothiazolylidene]methyl]-5-(3-thienyl)-, inner salt (9CI) (CA INDEX NAME)



L7 ANSWER 29 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:799977 CAPLUS
DOCUMENT NUMBER: 130:38375
TITLE: Preparation of 5-furfurylidene-4-thiazolidinones and analogs as vascular endothelial growth factor receptor antagonists
INVENTOR(S): Scott, Ian L.; Biediger, Ronald J.; Market, Robert V.
PATENT ASSIGNEE(S): Texas Biotechnology Corporation, USA
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9853790	A2	19981203	WO 1998-US9366	19980601
WO 9853790	A3	19990304		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1997-48105P P	19970530

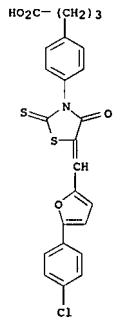
OTHER SOURCE(S): MARPAT 130:38375
GI



I

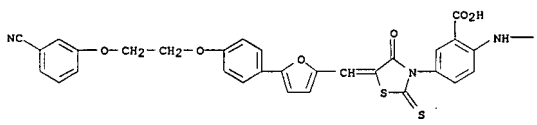
AB Title compds. [I; R = TR4; X = O, S, CR5:CR6; R1-R6 = H, cycloalkyl, heterocyclyl, aryl, etc.; R4 = H, (cyclo)alkyl, heterocyclyl, aryl, etc.; T = bond, alkylene, (alkyl)imino, NHCO, etc.; Y = O, S, (alkyl)imino, CH2; Z = CH2, CO, CS] were prepared as vascular endothelial growth factor receptor antagonists (no data). Thus, 3-benzyl-4-thiazolidinone was acylated by Me 5-phenyl-2-furoate (preparation each given) and the product converted in 2 steps to I (R = CH2Ph, R1 = Ph, R2 = R3 = H, X = O, Y = S, Z = CH2).
IT 216772-06-4P 216773-13-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 5-furfurylidene-4-thiazolidinones and analogs as vascular

L7 ANSWER 29 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
endothelial growth factor receptor antagonists)
RN 216772-06-4 CAPLUS
CN Benzenebutanoic acid, 4-[5-[[5-(4-chlorophenyl)-2-furanyl]methylene]-4-oxo-2-thioxo-3-thiazolidinyl]- (9CI) (CA INDEX NAME)

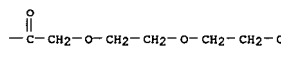


RN 216773-13-6 CAPLUS
CN Benzoic acid, 5-[5-[[5-[4-[2-(3-cyanophenoxy)ethoxy]phenyl]-2-furanyl]methylene]-4-oxo-2-thioxo-3-thiazolidinyl]-2-[[[2-(2-methoxyethoxy)ethoxy]acetyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



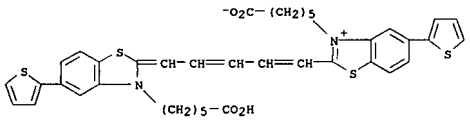
PAGE 1-B



L7 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:298195 CAPLUS
DOCUMENT NUMBER: 129:47355
TITLE: Thermally developable silver halide photographic material containing cyanine sensitizing dye
INVENTOR(S): Inagaki, Yoshio; Tsuzuki, Hirohiko
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10123663	A	19980515	JP 1996-293332	19961015
JP 3681840	B2	20050810		
US 5998125	A	19991207	US 1997-949694	19971015
PRIORITY APPLN. INFO.:			JP 1996-293332 A	19961015

OTHER SOURCE(S): MARPAT 129:47355
GI For diagram(s), see printed CA Issue.
AB The title materials contain, on ≥1 side of a support, photosensitive Ag halide grains and mono-, tri-, or pentamethinecyanine dyes I (Z1, Z2 = atomic group forming benzene or naphthalene ring; Y1, Y2 = O, S, Se, NR; R = alkyl; R1, R2 = alkyl; R3-R5 = H, monovalent substituent; i = 0-2; R4 and R5 may form 5- or 6-member ring at i = 2; j = 0, 1; the rings contain ≥1 thienyl or arylthio). The materials show low fog and high sensitivity.
IT 208125-65-9
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(thermally developable silver halide photog. emulsion containing cyanine sensitizer dye with low fog)
RN 208125-65-9 CAPLUS
CN Benzothiazolium, 3-(5-carboxypentyl)-2-[5-[3-(5-carboxypentyl)-5-(2-thienyl)-2(3H)-benzothiazolylidene]-1,3-pentadienyl]-5-(2-thienyl)-, inner salt (9CI) (CA INDEX NAME)

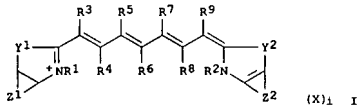


L7 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L7 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:732508 CAPLUS
DOCUMENT NUMBER: 128:68551
TITLE: Heat development photosensitive material useful in printing platemaking
INVENTOR(S): Inagaki, Yoshio; Oya, Toyohisa; Kobayashi, Katsu; Tsuzuki, Hirohiko
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09292673	A	19971111	JP 1996-105788	19960425
JP 3606998	B2	20050105		
US 5948608	A	19990907	US 1997-840715	19970425
PRIORITY APPLN. INFO.:			JP 1996-105788 A	19960425

OTHER SOURCE(S): MARPAT 128:68551
GI

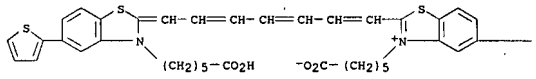


I

AB The title material, possessing photosensitive Ag halide grains on ≥1 side of a support, contains a cyanine dye I [Z1, Z2 = atoms required to form benzene or naphthalene ring; Y1, Y2 = O, S, Se, NR (R = alkyl); R1, R2 = alkyl; R3-9 = H or substituent, R4 and R6, R5 and R7, and R6 and R8 may link to form a 5 or 6-membered ring, R4, R6, and R8 may link to form a ring in which 2 6-membered rings are condensed; X = counter ion; i = 0 or 1; R1-9, R, Z1 or Z2 has ≥1 thienyl or arylthio group as a substituent]. The material containing a binder, an organic Ag salt, a reducing agent for the salt, photosensitive Ag halide grains, may contain the dye on ≥1 of a support. The material shows high sensitivity, low fog, high contrast, and good storage stability before and after processing.
IT 200401-09-8
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(heat-developable photosensitive material containing heptamethinecyanine dye)
RN 200401-09-8 CAPLUS
CN Benzothiazolium, 3-(5-carboxypentyl)-2-[7-[3-(5-carboxypentyl)-5-(2-thienyl)-2(3H)-benzothiazolylidene]-1,3,5-heptatrienyl]-5-(2-thienyl)-, inner salt (9CI) (CA INDEX NAME)

L7 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

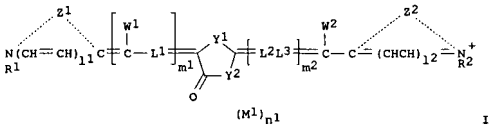


PAGE 1-B

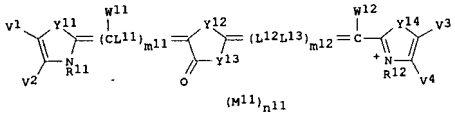
L7 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:505299 CAPLUS
DOCUMENT NUMBER: 127:169015
TITLE: Photographic material containing emulsion sensitized with cyanine dye
INVENTOR(S): Kagawa, Nobuaki; Nakamura, Masaki; Ishii, Fumio
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09179233	A	19970711	JP 1995-340159	19951227
JP 3333984	B2	20021015		
PRIORITY APPLN. INFO.:			JP 1995-340159	19951227

GI



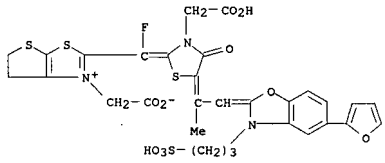
I



II

AB A photog. material has ≥1 emulsion layer sensitized with ≥1 cyanine dye of the structure I [Z1-2 = 5-6-membered N-heterocyclyl; Y1-2 = NR, O, S, Se, Te; R = aliphatic group, aryl, heterocyclyl; R1-2 = C≤10 aliphatic group; R, R1 and/or R2 = group substituted with water-solubilizing group; W1 = H, F, lower aliphatic group, aryl; W2 = H, F; W1 and /or W2 = F; L1-3 = (un)substituted methine; l1-2, m1-2 = 0, 1; m1 and /or m2 = 1; M1 = number necessary for cancelling a total charge of the mol.; n1 = number necessary for neutralizing a total charge of the mol.] or II [Y11-14 =

L7 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
NR10, O, S, Se, Te; R10 = aliph. group, aryl, heterocyclyl; R11-12 = C≤10 aliph. group; R10, R11 and/or R12 = group substituted with water-solubilizing group; V1-4 = H, alkyl, alkoxy, aryl; V1 and V2, V3 and V4 may be bound to each other to form a condensed ring; W11 = H, F, lower aliph. group, aryl; W12 = H, F; W11 and/or W112 = F; L11-13 = (un)substituted methine; m11-12 = 0, 1; m11 and /or m12 = 1; M11 = no. necessary for cancelling a total charge of the mol.; n11 = no. necessary for neutralizing a total charge of the mol.]. The photog. material has high sensitivity and exhibits a small residual color after processing.
IT 193602-66-3
RL: DEV (Device component use); USES (Uses)
(photog. material containing emulsion sensitized with cyanine dye)
RN 193602-66-3 CAPLUS
CN Thieno[3,2-d]thiazolium, 1-(carboxymethyl)-2-[[3-(carboxymethyl)-5-[2-[5-(2-furanyl)-3-(3-sulfopropyl)-2(3H)-benzoxazolylidene]-1-methylethylidene]-4-oxo-2-thiazolidinylidene]fluoromethyl]-5,6-dihydro-, inner salt (9CI) (CA INDEX NAME)



L7 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:666522 CAPLUS
DOCUMENT NUMBER: 125:288709
TITLE: Silver halide photographic material spectrally sensitized by trinuclear cyanine having improved red sensitivity and low dye stain
INVENTOR(S): Kagawa, Nobuaki; Kita, Noryasu
PATENT ASSIGNEE(S): Konishiroku Photo Ind., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

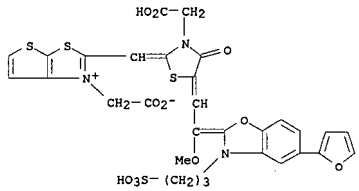
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08201954	A	19960809	JP 1995-11332	19950127
PRIORITY APPLN. INFO.:			JP 1995-11332	19950127

GI For diagram(s), see printed CA Issue.
AB The claimed photog. material is characterized by (1) that ≥1 of the emulsion layer is spectrally sensitized by a cyanine dye I (Z1, Z2 = 5- or 6-membered heterocyclic ring; Z3 = NR, O, S, Se, Te; R, R2 = aliphatic, aryl, heterocyclic group; R1, R3 = C 1-10 aliphatic; at least one of R and R1-3 has a water-solubilizing group; L1 = substituted methine; L2, L3 = methyne; M1 and n = counter ion for stoichiometric balance; l, k, m = 0, 1). A sensitizing dye II (Y11-13 = NR10, O, S, Se, Te; R10-13, L11-13 have the same meaning as R, R1-3, L1-3 in I; V1-4 = H, alkyl, aryl, alkoxy; ≥1 R10-13 has a water-solubilizing group; M11 and n = counter ion for stoichiometric balance; m = 0, 1). The spectral sensitizer provides high sensitivity at red spectral region, and also provides the material with good shelf life and low residual dye stain at the processing.
IT 182946-31-2
RL: DEV (Device component use); USES (Uses)
(Ag halide photog. material spectrally sensitized by trinuclear cyanine having improved red sensitivity and low dye stain)
RN 182946-31-2 CAPLUS
CN Thieno[3,2-d]thiazolium, 1-(carboxymethyl)-2-[[3-(carboxymethyl)-5-[2-[5-(2-furanyl)-3-(3-sulfopropyl)-2(3H)-benzoxazolylidene]-2-methoxyethylidene]-4-oxo-2-thiazolidinylidene]methyl]-, inner salt, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 182946-30-1
CMF C30 H25 N3 O11 S4

L7 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



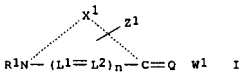
CM 2

CRN 121-44-8
CMF C6 H15 N

L7 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:262402 CAPLUS
DOCUMENT NUMBER: 125:22191
TITLE: Silver halide photographic material containing sensitizing methyne dye
INVENTOR(S): Ooya, Toyohisa
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08043984	A	19960216	JP 1994-175430	19940727
PRIORITY APPLN. INFO.:			JP 1994-175430	19940727

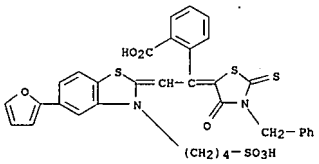
GI



I

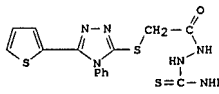
AB The photog. material contains in ≥1 component layer a methyne compound I [X1 = (substituted) group forming (condensed) 5- or 6-membered heterocycle; L1, L2 = (substituted) methyne; n = 0, 1; Q = (substituted) polymethyne or methyne; R1 = (substituted) aromatic or aliphatic; Z = ArLm; L = connecting group; Ar = (substitute) aromatic; m = 0, 1; W1 = counter ion].
The photog. material shows high sensitivity and low residual color stain.
IT 177323-96-5
RL: DEV (Device component use); USES (Uses)
(Ag halide photog. material containing sensitizing methyne dye)
RN 177323-96-5 CAPLUS
CN Benzoic acid, 2-[2-[5-(2-furanyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]-1-[4-oxo-3-(phenylmethyl)-2-thioxo-5-thiazolidinylidene]ethyl]-, monopotassium salt (9CI) (CA INDEX NAME)

L7 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

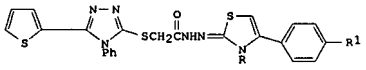


● K

L7 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:138971 CAPLUS
DOCUMENT NUMBER: 112:138971
TITLE: Synthesis and some chemical behavior of certain substituted thiosemicarbazides
AUTHOR(S): El-Kerdawy, M.; Eisa, H.; Barghash, A.; Marouf, A.
CORPORATE SOURCE: Fac. Pharm., Univ. Mansoura, Mansoura, Egypt
SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (1989), 36(4), 347-51
CODEN: JCCTAC; ISSN: 0009-4536
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

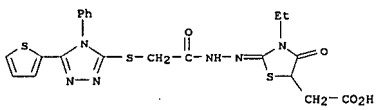


I



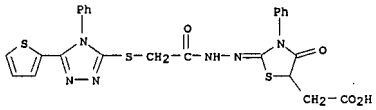
II

AB 3 New thiosemicarbazides I (R = Et, Bu Ph) were prepared from N-[4-phenyl-5-(2-thienyl)-1,2,4-triazol-3-yl]mercaptoacetohydrazide. Reaction of I with the appropriate phenacyl bromide afforded thiazoline derivs. II (R2 = H, Cl, Br, OMe) whereas their reaction with chloroacetic acid or maleic anhydride gave the corresponding thiazolidine derivs. Cyclodesulfurization of I with DCCD in PhMe yielded 5-substituted-amino-1,3,4-oxadiazoles, while their dehydration with polyphosphoric acid gave the corresponding 5-substituted-amino-1,3,4,-thiadiazoles. 6 Representative compds. were tested for their in-vitro antimicrobial activity against some pathogenic microorganisms, some of them were proved to be active.
IT 125866-95-7P 125866-96-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 125866-95-7 CAPLUS
CN 5-Thiazolidineacetic acid, 3-ethyl-4-oxo-2-[[[[4-phenyl-5-(2-thienyl)-4H-1,2,4-triazol-3-yl]thio]acetyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 125866-96-8 CAPLUS

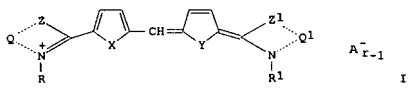
L7 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 5-Thiazolidineacetic acid, 4-oxo-3-phenyl-2-[[[[4-phenyl-5-(2-thienyl)-4H-1,2,4-triazol-3-yl]thio]acetyl]hydrazono]- (9CI) (CA INDEX NAME)



L7 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:183059 CAPLUS
DOCUMENT NUMBER: 110:183059
TITLE: Photosensitive composition for electrophotographic and heat-mode optical recording
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63155146	A	19880628	JP 1986-301690	19861219
PRIORITY APPLN. INFO.:			JP 1986-301690	19861219

GI



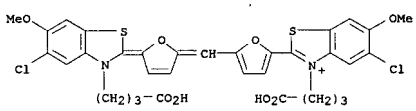
I

AB Electrophotog. photoreceptors and heat-mode optical recording medium use a photosensitive composition containing (I) [Z, Z1 = O, S, Se; Q, Q1 = atoms required to complete 5-membered heterocycle; R, R1 = aliphatic group; X, Y = O, S, Se; A- = anion; r = 1, 2]. The sensitizer dye serves to improve the storage stability of electrophotog. photoreceptors and to improve the sensitivity of optical recording media at ≥750 nm.
IT 120114-60-5
RL: USES (Uses)
(sensitizer dye, electrophotog. photoconductors and optical recording media from)
RN 120114-60-5 CAPLUS
CN Benzothiazolium, 3-(3-carboxypropyl)-2-[5-[[5-[3-(3-carboxypropyl)-5-chloro-6-methoxy-2(3H)-benzothiazolylidene]-2(5H)-furanylidene]methyl]-2-furanyl]-5-chloro-6-methoxy-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 120114-59-2
CMF C33 H29 Cl2 N2 O8 S2

L7 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

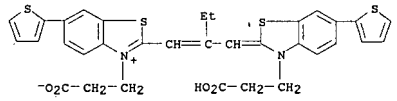
CRN 14874-70-5
CMF B F4
CCI CCS

L7 ANSWER 37 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1962:58374 CAPLUS
DOCUMENT NUMBER: 56:58374
ORIGINAL REFERENCE NO.: 56:11113i,11114a-g
TITLE: Sensitization of silver halide emulsions
INVENTOR(S): Bach, Guenther
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 19683		19600818	DD	19570827
PRIORITY APPLN. INFO.:			DD	19570827

GI For diagram(s), see printed CA Issue.
AB Cyanine and styryl dyes with 1 or more heterocyclic radicals of the general formula I, where R is a substituted heterocyclic radical, R' is an alkyl, aralkyl, or aryl radical, X is O, S, Se, NR'', CH:CR", or C(Y)Z radical (Y and Z are awl, alkyl or cycloalkyl groups), R" is H, alkyl, cycloalkyl, or aryl radicals, are prepared AgCl emulsion (1 kg.) containing 40 mg. N,N'-diethylquinopseudocyanine was sensitized with 2 mg. 5-(2-benzoxazolyl)-2(4-dimethylaminostyryl)benzothiazole (II), sensitization range 500-590 mμ, maximum 580 mμ. II, m. 246-8° (C6H6) is obtained by melting p-Me2NC6H4CHO with 2-methyl-5-(2benzoxazolyl)benzothiazole (III) and anhydrous ZnCl2 for 3 hrs. 2-(4-Chloro-3-nitrophenyl)benzoxazole (IV), m. 178-80° (BuOH), was treated with Na2S2 and then with a mixture of AcOH-Ac2O-Zn in dioxane at 120-40° to give III, m. 158-60° (MeOH). Melting 1 g. 2-methyl-5-(2-furyl)benzoxazole (V) with 0.0 g. ethylene sulfate at 110°, condensation with 8 ml. EtC(OEt)3 (VI) in 5 ml. pyridine and 3 ml. AcOH for 2 hrs. at 150°, and precipitation with Et2O gave 9-ethyl5,5'-di-2-furyl-3,3'-bis(2-sulfatoethyl)oxacarbocyanine inner salt, m. 226° (decomposition) (MeOH), sensitization range 500-580 mμ, maximum 560-65 mμ. V, m. 60-2° (petr. ether), b5-6 154-5°, was obtained by boiling 2-methyl-5-nitroso-acetamidobenzoxazole (VII) with furan for 80 hrs. and vacuum distillation of the residue after removal of the furan excess. 2-Methyl-5-(2-thienyl)benzoxazole, m. 68-70° (EtOH), which is obtained from VII and thiophene (VIII), was melted with 2.6 g. Et 2,4-dinitrobenzenesulfonate; 2.5 g. of the quaternary salt was heated with 1.2 g. S-ethylisothiopropionanilide for 30 min. at 180°. Of this product, 1.5 g. was condensed with 0.95 g. 2-methyl-3-ethyl-5-methoxybenzothiazolium p-toluenesulfonate in 3 ml. pyridineAcOH (5:1) mixture (IX) for 1 hr. at 125°. The dye is precipitated with 2 ml. 20% aqueous KI and extracted with H2O to give 3-ethyl-2-[2-ethyl-3-(3-ethyl-5-methoxy-2-benzothiazolinylidene)propenyl]-5-(2-thienyl)benzoxazolium iodide, m.p. 203-5°, sensitization range 500-620 mμ, maximum 600-5. Heating 1.15 g. 2-methyl-6-(2-thienyl)benzothiazole (X) with 0.76 g. Br(CH2)2CO2H for 1 hr. and boiling with 2 ml. VI in 10 ml. IX gave 3,3'-bis(2-carboxyethyl)-9-ethyl-6,6'-di-2-thienylthiacarbocyanine inner salt, m. 204-6° (EtOH), sensitization range 500-650 mμ. X, m. 83-5° (EtOH), was obtained by diazotizing 2-methyl-6-aminobenzothiazole, stirring the diazonium salt solution with VIII and 5N

L7 ANSWER 37 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
NaOH for 15 hrs. Heating 1.6 g. 1-phenyl-2-methyl-5-(2-benzoxazolyl)benzimidazole (XI) with 5 ml. MeI in a sealed tube for 3 hrs. at 100°, boiling the product with 1 ml. HC(OEt)3 in 10 ml. PhNO2, and pptn. with Et2O gave 5,5'-di-2benzoxazolyl-3,3'-dimethyl-1,1'-diphenylazacyanine iodide m. 270° (Me2CO), sensitization max. 560-5 mμ. XI, m. 127-8° (petr. ether), is prepd. by boiling IV with PhNH2, redn. of 2-(4-anilino-3-nitrophenyl)benzoxazole, m. 161-3° (Me2CO) with H in MeOH and Raney Ni as catalyst, and boiling the diamine with AcOH-Ac2O.
IT 105730-01-6P, 3-(2-Carboxyethyl)-2-[2-[[3-(2-carboxyethyl)-6-(2-thienyl)-2-benzothiazolinylidene]methyl]-1-butenyl]-6-(2-thienyl)benzothiazolium hydroxide, inner salt
RL: PREP (Preparation)
(manufacture of, and use as sensitizer in photography)
RN 105730-01-6 CAPLUS
CN 3-(2-Carboxyethyl)-2-[2-[[3-(2-carboxyethyl)-6-(2-thienyl)-2-benzothiazolinylidene]methyl]-1-butenyl]-6-(2-thienyl)benzothiazolium hydroxide, inner salt (6CI, 7CI) (CA INDEX NAME)



L7 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1961:92058 CAPLUS
DOCUMENT NUMBER: 55:92058
ORIGINAL REFERENCE NO.: 55:17321f-i,17322a-b
TITLE: Sensitization of silver halide emulsions
INVENTOR(S): Bach, Gunther
PATENT ASSIGNEE(S): VEB Filmfabrik Agfa Wolfen
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1063028		19590806	DE 1957-V13077	19570910

AB Analogs of 5,5'-diphenyl-3,3',9-triethylbenzoxacarbocyanine carrying a bulky heterocyclic substituent provided increased sensitivity in the 500-90 mμ range without increased sensitivity to red, while maintaining spectral selectivity and absence of undesirable diffusion. Thus, Purple Coupler Z 169 (Cornwell-Clyne, Colour Cinematography, 1951, p. 384 (CA 47, 3735f)) and 3.0 mg. of each sensitizer were mixed with 100 cc. AgBr-AgI emulsion and cast on a film base. Test strips were illuminated by a spectrograph to equal exposures and developed black-and-white in a solution containing hydroquinone and p-methylaminophenol to determine the range of sensitization. The dyes were prepared by heating a substituted 2-methyl N-heterocyclic compound, optionally quaternized, with an ortho ester or derivative, suitably in a mixture of AcOH and pyridine at 125-40°. For example, 2-(4-chloro-3-nitrophenyl)benzoxazole (I), m. 178-80°, and Na2S2 gave the disulfide; reductive cyclization with Zn, AcOH, and Ac2O in dioxane at 120-40° gave 2-methyl-5-(2-benzoxazolyl)benzothiazole, m. 158-60°, which on fusion with p-Me2NC6H4CHO and ZnCl2 for 3 hrs. gave a dye, m. 246-8°; sensitivity maximum 580 mμ, range 500-90 mμ. 2-Methyl-5-(2-furyl)benzoxazole, b5 154-5°, m. 60-2°, prepared from furan and 2-methyl-5-(N-nitrosoacetamido)benzoxazole, was quaternized with ethylene sulfate and condensed with EtC(OEt)3 (II) to give a dye, m. 226°, with sensitivity maximum 560-5 mμ, range 500-80 mμ. 2-Methyl-5-(2-thienyl)benzoxazole, m. 68-70°, was quaternized with 2,4-(NO2)2C6H4SO3Et, heated for 30 min. at 180° with EtC(SEt):NHPh, and the resulting intermediate was condensed with 2-methyl-3-ethyl-5-methoxybenzothiazolium salt; the dye was precipitated with KI and crystallized from alc., m. 203-5°, sensitivity maximum 600-5 mμ, range 500-620 mμ. Diazotized 2-methyl-6-aminobenzothiazole, thiophene, and 5N NaOH gave the 6-(2-thienyl)derivative m. 83-5°; this was quaternized with BrCH2CH2CO2H and condensed with II to give a dye, m. 204-6°, sensitivity range 500-650 mμ. I and boiling PhNH2 gave the anilino derivative, m. 161-3°; this was reduced with H and Raney Ni in MeOH and the diamine boiled with AcOH-Ac2O to give 1-phenyl-2-methyl-5-(2-benzoxazolyl)benzimidazole, m. 127-8°, which was quaternized with MeI, condensed with HC(OEt)3 in PhNO2, and precipitated with ether to give a dye, m. 270°, sensitivity maximum 560-5 mμ. Cf. CA 53, 4985c.

L7 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 105730-01-6P, 3-(2-Carboxyethyl)-2-[2-[[3-(2-carboxyethyl)-6-(2-thienyl)-2-benzothiazolinylidene]methyl]-1-butenyl]-6-(2-thienyl)benzothiazolium hydroxide, inner salt
RL: PREP (Preparation)
(preparation of)
RN 105730-01-6 CAPLUS
CN 3-(2-Carboxyethyl)-2-[2-[[3-(2-carboxyethyl)-6-(2-thienyl)-2-benzothiazolinylidene]methyl]-1-butenyl]-6-(2-thienyl)benzothiazolium hydroxide, inner salt (6CI, 7CI) (CA INDEX NAME)